

- Inverter/Charger
- Inverter
- Solar Charge Controller
- On-Grid Inverter with Energy Storage
- Off-Grid Inverter
- Water Pump Inverter



In our world, everything is built to last.



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Voltronic Power Overview

Voltronic Power Technology Corp. established by Alex Hsieh has over 20 years of experience in DMS (Design and Manufacturing Service) of power products. Headquartered in Taiwan, Voltronic Power is committed to providing high quality products and services to meet diverse customers' requirements. With the same diligent customer-oriented spirit, Voltronic Power is dedicated to continuously designing, manufacturing, marketing, and introducing a complete line of UPSs, inverters, and solar power products to the demanding power market.

To meet customers' demand, we have expanded our manufacturing factory to 5 for sufficient capacity of production. Our R&D center is co-located with manufacturing to offer efficient operation. We have solid and richly-experienced engineering teams dedicated to product development. Voltronic Power guarantees reliable product development and consistent manufacturing quality, from raw materials to finished products to punctually fulfill its delivery deadlines.

Voltronic Power is a truly remarkable company, with a strong history of service, innovation and growth. Voltronic Power's professional team is ready to start a new chapter in the global power market.

❖ Mission Statement & Corporate Vision



Production Line



SMD/AI



R&D

To become a worldwide leading DMS provider by developing both customized products and exclusive marketing intelligence for customers :

We focus 100% on creating customers' brands and dedicate ourselves to developing innovative power products and marketing intelligence for customers.

To develop a reputation in the power industry as a trusted and reliable partner :

We understand that "Good Products" are the core competence for company development. Therefore, we are dedicated to developing innovative and reliable products to customers through the continuous development and investment in our R&D center.

Build strong relationships with customers to strengthen customers' brands and market growth :

We help customers to develop their own brands and enlarge their market share because we strongly believe that customers are the key growth engine for Voltronic Power.

Continue developing the latest innovations, including eco-friendly and green products :

As global citizens, Voltronic Power is committed to reducing the environmental impact of our operations and products.

❖ Key Values to Customers

- **Secured Information Management:** With over 20 years of professional experience in the power market, we've managed power knowledge, market trends, and know-how with our customers. In the meanwhile, our customers' privacy has already been the most valued core for us to earn trusted relationships.
- **Innovative Design:** Leveraging 20 years of our professional experience in the power market, we've been highly aware of the market change and helped our customers attune to the dynamics of the industry. We've been dedicated to developing new technology and implementing innovative ideas in our products, but not always me-too outcome.
- **Quality Manufacturing:** Conforming with ISO-9001 and ISO-14001 certification, we have built up unmatched quality control systems from incoming components to finished products.
- **Satisfied Service:** We provide exclusive assistance and swift customer service, from product design and marketing packages to technical support.
- **Total Quality Assurance System:** From design, and manufacture, to service, we offer a Total Quality Assurance System to guarantee high-quality and reliable products and services. Our total quality system has been audited and approved by globally respected companies.

Atom

- 600VA simulated sine wave inverter
- Built-in transformer
- Wide input voltage range
- 10A standard charging current
- Auto restart while AC is recovering
- Overload, overcharge and short circuit protection
- Cold start function
- Offer LED or LCD front panels for selection



Lobo Inverter

- Simulated sine wave inverter
- Built-in AVR for voltage regulation
- Wide input voltage range: 90-280 VAC
- 12VDC or 24VDC available
- Overload, short circuit and reverse polarity protection
- LCD display for comprehensive information



INVERTER/CHARGER

Inverter/Charger Selection Guide

MODEL	Atom 600		Lobo 1.2K	Lobo 2.4K
CAPACITY	600 VA / 420 W		1200VA/ 720W	2400VA/ 1440W
INPUT				
Voltage	230 VAC			
Acceptable Voltage Range	100 - 290 VAC	90-280VAC		
Frequency Range	50Hz/60Hz (Auto Sensing)			
OUTPUT				
AC Voltage Regulation (Batt. Mode)	230V ±10%			
Transfer Time	20 ms (typical)			
Waveform (Batt. Mode)	Simulated Sine wave			
BATTERY				
Battery Voltage	12 VDC	12 VDC	24VDC	
Floating Charge Voltage	13.7 VDC ± 2%	13.7 VDC ± 2%	27.4 VDC ± 2%	
Low Battery Alarm Voltage @ 50% Load	10.6 VDC ± 2%	10.2 VDC ± 2%	20.4 VDC ± 2%	
Shutdown Voltage	9.9 VDC ± 2%	9.9 VDC ± 2%	19.8 VDC ± 2%	
Overcharge Protection	14.5 VDC ± 2%	15.0 VDC ± 2%	30.0 VDC ± 2%	
Maximum Charge Current	10 A	10 A or 20 A (Selectable)		
PHYSICAL				
Dimension, D X W X H (mm)	359 x 97 x 147		300 x 360 x 88	
Net Weight (kgs)	5.1	6.1	7.4	
ENVIRONMENT				
Humidity	0 to 90% Relative Humidity(Non-condensing)			
Operating Temperature	0°C to 50°C		0°C to 40°C	
Storage Temperature	-15°C to 50°C		-15°C to 50°C	

Product specifications are subject to change without further notice.

Genie Inverter

- Pure sine wave inverter
- Excellent microprocessor control guarantees high reliability
- Boost and buck AVR for voltage stabilization
- Selectable output transfer time for home appliances and personal computers
- Wide input voltage range
- Selectable charging current
- Overload, discharge and overcharge protection



Axpert MS Inverter

- Pure sine wave inverter
- Selectable input voltage range for home appliances and personal computers
- Selectable charging current
- Auto restart while AC is recovering
- Overload and short circuit protection
- Generators & Computer-related devices compatible
- Smart battery charger design for optimized battery performance
- Cold start function



Genie Sine Wave Inverter Selection Guide

MODEL	Genie 1K	Genie 2K
CAPACITY	1000VA/600W	2000VA/1200 W
INPUT		
Voltage	110/120VAC or 220/230 VAC	
Acceptable Voltage Range	80-150V / 140-300 VAC	
Frequency	60Hz / 50 Hz (Auto sensing)	
OUTPUT		
Output Voltage	220VAC/230 VAC	
Voltage Regulation (Batt. Mode)	± 10%	
Transfer Time	4-8 ms (For Personal Computer) 40 ms (for Home Appliances)	
Waveform (Batt. Mode)	Pure sine wave	
BATTERY & AC CHARGER		
Battery Voltage	12 VDC	24 VDC
Floating Charge Voltage	13.5 VDC ± 0.5VDC	27 VDC ± 1%
Maximum Charge Current	10A or 20A (Selectable)	
PROTECTION		
Full Protection	Overload, discharge, and overcharge protection	
PHYSICAL		
Dimension, D X W X H (mm)	395 x 145 x 220	
Net Weight (kgs)	9.8	14.5
ENVIRONMENT		
Humidity	0 to 90% Relative Humidity (Non-condensing)	
Operating Temperature	0°C to 40°C	
Noise Level	Less than 50dB	

Product specifications are subject to change without further notice.

Axpert MS Sine Wave Inverter Selection Guide

MODEL	Axpert MS 700	Axpert MS 1.2K
CAPACITY	700 VA / 500 W	1200 VA / 840 W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
Frequency Range	50/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%	
Surge Power	1400 VA	2400 VA
Efficiency (Peak)	90%	
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)	
Waveform (Batt. Mode)	Pure sine wave	
BATTERY & AC CHARGER		
Battery Voltage	12 VDC	
Floating Charge Voltage	13.5 VDC	
Low Battery Alarm Voltage	11.5 VDC	
Shutdown Voltage	10.5 VDC	
Overcharge Protection	15 VDC	
Maximum AC Charge Current	10 A or 15 A (Selectable)	10 A or 20 A (Selectable)
PROTECTION		
Full Protection	Overload and short circuit protection	
PHYSICAL		
Dimension, D X W X H (mm)	289 x 290 x 127	
Net Weight (kgs)	4.5	4.8
ENVIRONMENT		
Humidity	0 to 90% Relative Humidity (Non-condensing)	
Operating Temperature	0°C to 50°C	
Storage Temperature	-15°C to 70°C	

Product specifications are subject to change without further notice.

+Nova Modular 3-in-1 Inverter/Rectifier/Solar Charger



- Modular scalable design up to 8 units
- Power factor 1
- 3-in-1: inverter, AC/DC charger or solar charger
- Hot-swappable design simplifies installation and maintenance
- Automatic load sharing on AC output
- High efficiency
- Overload and short circuit protection

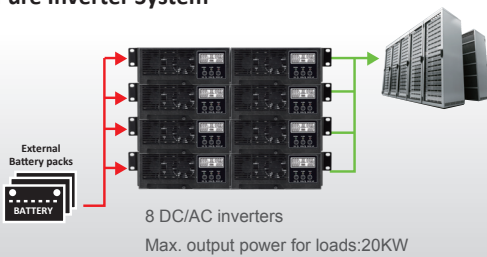
INVERTER/CHARGER

+Nova is a compact and scalable power module supporting up to 20KW power. The modules can be set as DC/AC inverter, AC/DC or DC/DC charger respectively, and consolidated to form a multifunctional operation system for diverse power requirement.

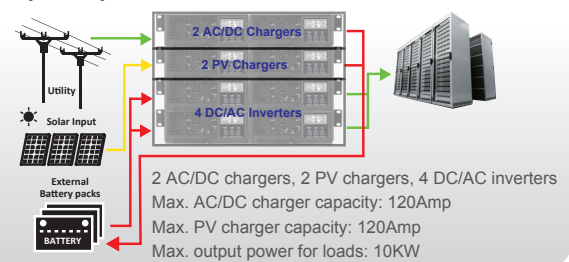
+Nova is designed with hot-swappable inverter/charger module which ensures low MTTR, reduction in service cost and meets future expansion demands.

Multiple Applications:

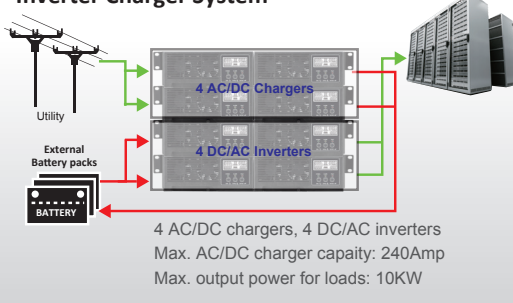
Pure Inverter System



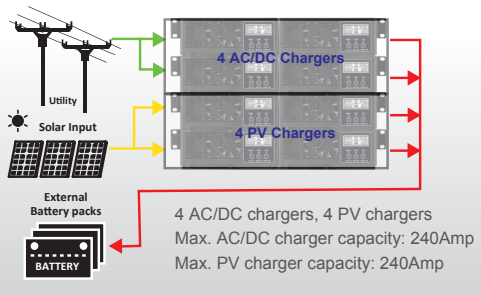
Hybrid System



Inverter Charger System



Super Charger System



+Nova Modular Inverter/Rectifier/Solar Charger Specification

MODEL	+Nova
CAPACITY	2500VA/2500W
SET AS DC/AC INVERTER	
DC INPUT	
Nominal DC Voltage	48VDC
Operating Voltage Range	40VDC ~ 60VDC
Voltage Ripple	≤ 2.0mV
Peak to Peak Noise	150mV up to 100MHz
Inrush Current	< 2 x Irated
AC OUTPUT	
Nominal Voltage	220/230/240 VAC (selectable)
AC Voltage Regulation	± 2% (max.)
Frequency Range	50Hz ± 0.1Hz
Peak Efficiency	> 93%
Harmonic Distortion	< 3% THD (Linear Load) < 5% THD (Non-linear Load)
Overload Capability	> 150% for 5 secs, >110% for 10 secs
Load Sharing	<5% at 50-100% load
SET AS AC/DC CHARGER	
AC INPUT	
Nominal Voltage	230 VAC
Operating Voltage Range	185 VAC ~ 265 VAC
Frequency Range	50Hz/60Hz (Auto sensing)
DC OUTPUT	
Nominal Voltage	54 VDC
Max. Charging Current	60A
Charging Method	3-step algorithm
SET AS DC/DC (PV) CHARGER	
PV INPUT	
Maximum Open Circuit Voltage	320 VDC
MPPT Voltage Range	160 VDC ~ 320 VDC
Maximum Charging Current	60A
DC OUTPUT	
Nominal Voltage	54 VDC
Max. Charging Current	60A
Charging Method	3-step algorithm
GENERAL	
PHYSICAL	
Dimension, D X W X H (mm)	409 x 215 x 88
Net Weight (kgs)	6
ENVIRONMENT	
Humidity	5% ~ 95% RH (Non-Condensing)
Operating Temperature	-20°C to 60°C
Safety	IEC60950
Noise Level	Less than 50dB @ 1 Meter

Product specifications are subject to change without further notice.

EPS (Emergency Power System) 5KW



- Pure sine wave inverter
- Built-in AC charger up to 60A
- Selectable charging current based on applications
- Configurable parameter setting via LCD display
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Selectable input voltage range for home appliances and personal computers
- Cold start function
- Parallel operation with up to 9 units
- Optional MPPT or PWM Solar Charger

EPS 5KW Specification

MODEL	EPS 5KW
RATED POWER	5000VA/5000W
INPUT	
Voltage	220/230/240 VAC
Voltage Range	170-255 VAC
Frequency Range	50 Hz/60 Hz (Auto sensing)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	220/230/240VAC \pm 5%
Surge Power for 5 seconds	10000VA
Efficiency (Peak)	93%
Transfer Time	< 10 ms
Waveform (Batt. Mode)	Pure sine wave
BATTERY	
Battery Voltage	48 VDC
CC/CV Charge Voltage	56.4 VDC
Floating Charge Voltage	53.6 VDC
Overcharge Protection	60 VDC
AC CHARGER	
Maximum AC Charge Current (Adjustable)	2.5~60 A
Charging modes	3 steps for CC, CF and Floating
SOLAR CHARGER (option)	
Maximum PV Array Power	4000W
MPPT Range @ Operating Voltage	60 VDC ~ 115 VDC
Maximum PV Array Open Circuit Voltage	145 VDC
Maximum Solar Charge Current	80 A
PARALLEL	
Maximum Parallel units	Up to 9 units
Parallel Type	Single Phase or Three Phase
Transfer Time in Parallel Mode	<40ms
PHYSICAL	
Dimension, D x W x H (mm)	400 x 438 x 88 (2U)
Net Weight (kgs)	9.1
INTERFACE	
Communication	Modbus RS-485
Dry Contact	Deliver signal to external device such as generator
OPERATING ENVIRONMENT	
Humidity	5% to 95% Relative Humidity (Non-condensing)
Operating Temperature	0°C to 40°C
Storage Temperature	-15°C to 60°C

Product specifications are subject to change without further notice.

Telecom Inverter



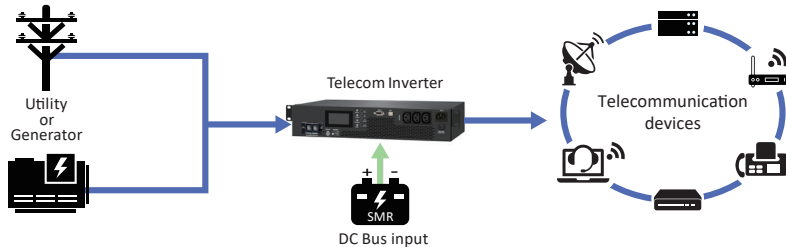
Telecom 1K



Telecom 2K/3K

- True double-conversion
- Durable design for Telecom applications
- AC Input power factor correction
- AC output power factor 0.8
- Wide AC input voltage (110 V – 300 V)
- Generator compatible
- Priority mode setting: ECO mode (AC bypass), Online mode (AC inverter) and Battery mode (DC inverter). (Only apply for Telecom 2K/3K models)
- DC isolation design
- DC Reverse protection (Only apply for Telecom 2K/3K models)
- AC charger capacity up to 6A for Telecom 1K and 10A for Telecom 2K/3K
- Built-in RS232/USB/RS485 communication
- Reflected relative noise current and reflected relative psophometrically weighted noise current upon by request

System Diagram



Telecom Inverter Selection Guide

MODEL	Telecom Inverter 1K	Telecom Inverter 2K	Telecom Inverter 3K
CAPACITY	1000 VA / 800 W	2000 VA / 1600 W	3000 VA / 2400 W
AC INPUT			
Nominal Voltage	220/230/240VAC		
Nominal Frequency	50/60 Hz (Auto sensing)		
AC Input Voltage Range	110-300 VAC (Based on load at 50%); 160-300VAC (Based on load at 100%)		
AC Frequency Range	40Hz ~ 70 Hz		
Power Factor	≥ 0.99 @ Nominal Voltage (100% load)		
DC INPUT			
Nominal Voltage	-48VDC		
Rated Current	20A	38A	57A
DC Input Voltage Range	40~60VDC		
Reflected Relative Noise Current (optional)	<10%		
Reflected Relative Psophometrically Weighted Noise Current (optional)	<1%		
AC OUTPUT			
Output Voltage	220/230/240VAC		
Voltage Regulation	± 1%		
Frequency Range (Synchronized Range)	47~ 53 Hz or 57 ~ 63 Hz		
Frequency Range (Batt. Mode)	50 Hz ± 0.25 Hz or 60Hz ± 0.3 Hz		
Current Crest Ratio	3:1		
Harmonic Distortion	≤ 3 % THD (Linear Load); ≤ 5 % THD (Non-linear Load)		
Transfer Time	Online Mode to Battery Mode	Zero	
	Online Mode to ECO Mode	4 ms (Typical)	
	Line Mode to Battery Mode	Zero	
Waveform (Online Mode & Battery Mode)	Pure Sinewave		
AC CHARGER			
Output Voltage (Floating volatge)	54.7 VDC ±1%		
Maximum AC Charge Current	6A	10A	10A
EFFICIENCY			
Online Mode	90%	91%	91%
ECO Mode	95%	96%	96%
Battery Mode (Meet requirement of Reflected Relative Noise Current)	84%	88%	88%
Battery Mode (Typical)	87%	90%	90%
INDICATORS			
Display	LED for Online mode, Battery mode, ECO mode, and Fault indicators	LCD for Operation status, Load level, DC level, AC Input/Output voltage, and Fault conditions	
PHYSICAL			
Dimension, D x W x H (mm)	330 x 440 x 44	380 x 440 x 88	
Net Weight (kgs)	6	9.5	10
ENVIRONMENT			
Humidity	0-90 % Relative Humidity (non-condensing)		
Operating Temperature	-5- 55°C	-5- 45°C	
Noise Level	Less than 50dBA @ 1 Meter		
MANAGEMENT			
RS-232/USB/RS-485	RS-232/USB or RS-485		
	Supports Windows 2000/2003/XP/Vista/2008/7/8, Linux and MAC		

Product specifications are subject to change without further notice

AutoMate



- Support multiple types of charging mode, including Li-Ion and VRLA batteries
- Compatible with a wide range of charging voltage settings (48-120V) to adapt to batteries of different specifications, using three-stage or single stage charging to extend battery life
- Variable charging current, up to 100A/200A Max, to adapt to batteries of different capacities
- Supports EPO, unit can completely disconnect from Utility and battery to ensure operational safety
- High frequency design, compact size, light weight, convenient for transportation and installation
- With RGB background lightings, touch buttons, and user-friendly interface
- Built-in Wi-Fi transmitter, connect via web for remote monitoring (optional)
- Equipped with easy-to-maintain dust filter to minimize dust and powder damage to the inverter

Application



Automated forklift trucks

AutoMate Selection Guide

MODEL	AutoMate 100A	AutoMate 200A
AC INPUT		
Nominal Input Voltage	3-phase, 3ph+PE	
Acceptable Input Voltage Range	276-480VAC	
Frequency Range	45Hz-65Hz	
Input Power Factor	≥ 0.99 nominal input and full load output	
THDi	< 5% nominal input and full load output	
Soft Starup Time	5 ~10S	
DC OUTPUT		
DC Output Voltage (VDC)	48VDC/ 60VDC/ 80VDC/ 100VDC/ 120VDC* (Adjustable)	
Nominal Output Current	0-100A	0-200A
Nominal Output Power (kW)	4.8KW/6KW/8KW/10KW/10KW	9.6KW/12KW/16KW/20KW/20KW
Connection	REMA/Anderson/GB with 3m Battery cable(Optional)	
Peak Efficiency	93%	
Voltage Regulation Precision	≤ ±1% @ no load	
Current Regulation Precision	≤ ±2% @ I _{out} >50A, ≤ 2A @ I _{out} ≤50A	≤ ±2% @ I _{out} >100A, ≤ 4A @ I _{out} ≤100A
Current Sharing Difference	5% @ >10% Load	
PROTECTION		
Safety Protection	Over/Undervoltage Protection, Overload Protection, Short Circuit Protection, Wrong polarity protection	
PHYSICAL		
IP Protection	IP32	
Dimension, D x W x H (mm)	178 x 600 x 417	265 x 600 x 417
Net Weight (Kg)	16.5	27
Installation	Wallmount	
ENVIRONMENT		
Humidity	5~95% Relative Humidity(Non-condensing)	
Operating Temperature	-10° C ~ 50° C (Output Derating @50° C~60° C)	
Cooling	Force Colling	
MANAGEMENT		
Communication	RS232/RS485/CAN	

* If output voltage is higher than 100VDC, the output current will be derated. Product specifications are subject to change without further notice.

BC1260/2430

BATTERY CHARGER



- Accepts 90 - 265 VAC AC charging range
- High power factor up to 99% and high efficiency charging up to 90%
- Support multiple types of battery, including AGM/GEL/ FLOODED/ Lithium and user-defined charging curved battery.
- RS485 communication available for BMS
- Two battery outputs available to charge two separate group battery at the same time, no backfeed current for the batteries
- LCD display with function key for comprehensive information
- Output short circuit and battery polarity reversed protection

BC1260/2430 Selection Guide

MODEL	BC1260	BC2430
INPUT		
Nominal Input Voltage	120/220/230/240 VAC	
Acceptable Input Voltage Range	108 ~ 265VAC, full power output	
	90 ~ 107VAC, power de-rated	
Frequency Range	45 ~ 65Hz	
Power Factor	> 0.99 at full load	
AC input power at standby	< 5W	
OUTPUT		
Nominal Voltage	12V	24V
Rated current	60A	30A
Output voltage range	12 ~ 16V selectable	24 ~ 32V selectable
Output Current	5 ~ 60A selectable	5 ~ 30A selectable
Supported battery type	AGM/GEL/FLOODED/ User define/ Lithium battery Selectable via LCD	
Efficiency	90%	
Battery Output	Two	
PROTECTION		
Output short circuit	Yes	
Reverse battery polarity protection	Yes, Fuse	
LCD		
Status display	Battery voltage, current and unit working status	
Setting	Battery type, output voltage, current selection	
MANAGEMENT		
Communication	RS-232/ RS-485 for Lithium battery BMS	
PHYSICAL		
Dimension, D x W x H (mm)	66 x 206 x 270	
Net Weight (Kg)	2.9	
ENVIRONMENT		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	-20°C to 60°C	
Noise Level	< 50dB	

Product specifications are subject to change without further notice.

PWM Solar Charge Controller



- 12VDC or 24VDC available
- Multi-stage charging method
- Lightweight design

PWM Solar Charge Controller Selection Guide

MODEL	SCC-PWM-120W	SCC-PWM-240W	SCC-PWM-360W	SCC-PWM-600W	SCC-PWM-720W	SCC-PWM-1200W
INPUT						
Maximum PV Array Open Circuit Voltage	25 VDC	50 VDC	75 VDC	75 VDC	75 VDC	75 VDC
Maximum PV Array Power	120 W	240 W	360 W	600 W	720 W	1200 W
Maximum Current	10 A		30 A	50 A	30 A	50 A
OUTPUT						
Nominal Battery Voltage	12 VDC	24 VDC	12 VDC	12 VDC	24 VDC	24 VDC
Connected Battery Type	Sealed lead acid battery					
Maximum Charging Current	10 A		30 A	50 A	30 A	50 A
Ripple Voltage	< ± 1 V					
Charging Method	Two stages: bulk and floating 1 / floating 2		Three stages: bulk, abs cv, floating			
INDICATORS						
LED Display	Green LED indicating charging status					
PHYSICAL						
Dimension, D X W X H (mm)	92.6 x 60.7 x 30.8		107.6 x 75 x 30.8	131 x 85 x 40.5	107.6 x 75 x 30.8	131 x 85 x 40.5
Net Weight	210 g		340 g	490 g	340 g	490 g
Connector	PV/Battery terminal block		PV/Battery/Load terminal block			
IP Protection	IP 31					
ENVIRONMENT						
Operating Temperature	-20°C to 55°C					
Storage Temperature	-40°C to 75°C					
Altitude	0 ~ 3000 m					

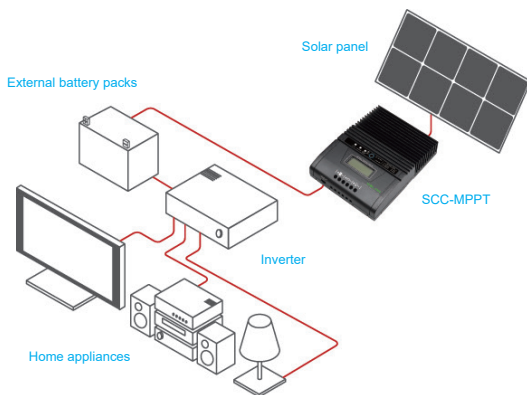
Product specifications are subject to change without further notice.

MPPT Solar Charge Controller



- Intelligent Maximum Power Point Tracking technology
- Built-in DSP controller with high performance
- Automatic battery voltage detection (Only for 600W and 3KW)
- Battery temperature sensor (BTS) automatically provides temperature compensation (Only for 3KW)
- Three-stage charging optimizes battery performance
- Automatic load-detection
- Multifunctional LCD displays detailed information
- Reverse polarity protection for solar panel and battery
- Overcharge and overload protection
- Suitable for different battery types

Standalone Solar Power System:



Combined MPPT technology and DSP controller, SCC-MPPT will convert best voltage to charge battery based on various temperature. Compared to traditional solar charge controllers, it allows your solar panels to operate at their optimum power output voltage, providing higher efficiency up to 98% with lower power loss.

Integrated SCC-MPPT with inverter, solar panel, and external battery packs, it can become a standalone solar power system to generate green power for your home appliances. SCC-MPPT will convert solar power to charge external batteries and then provide power to home appliances via inverter.

MPPT Solar Charge Controller Selection Guide

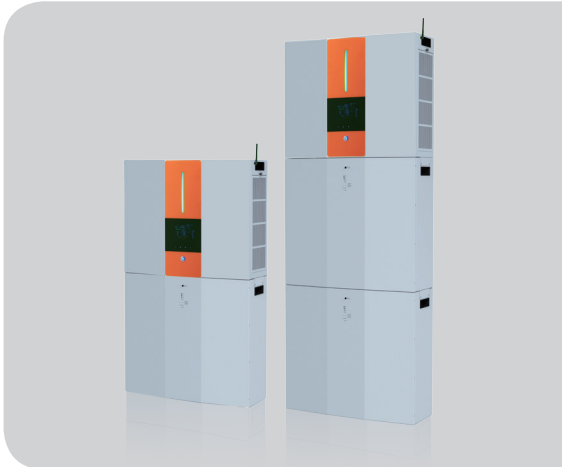
MODEL	SCC-MPPT 300W	SCC-MPPT 600W	SCC-MPPT 850W	SCC-MPPT 3KW
INPUT				
MPPT Range @ Operating Voltage	15 VDC ~ 37 VDC	15 VDC ~ 33 VDC	30 VDC ~ 66 VDC	45 VDC ~ 88 VDC
Maximum PV Array Open Circuit Voltage	50 VDC	50 VDC	75 VDC	98VDC
Maximum PV Array Power	300 W	300 W	600 W	850 W
Maximum Current	18 A		17A	50 A
OUTPUT				
Nominal Battery Voltage	12 VDC	12 VDC	24 VDC	36 VDC
Connected Battery Type	Sealed lead acid, vented, Gel, NiCd battery			12 VDC 24 VDC 48 VDC
Maximum Charging Current	25 A		20A	60 A
Maximum Efficiency	98%			
Charging Method	Three stages: bulk, absorption, and floating			
PROTECTION				
Overload Protection	> 110% : audible alarm			N/A
Overcharge Protection	Yes			
Polarity Reversal Protection @ Solar Cell & Battery	Yes			
INDICATORS				
LCD Panel	LCD panel indicating solar power, load level, battery voltage/capacity, charging current, and fault conditions			
LED Display	Three indicators for solar, charging, and load status			
PHYSICAL				
Dimension, D x W x H (mm)	135 x 170 x 57.5	220 x 170 x 57.5		315 x 165 x 128
Net Weight (Kgs)	0.92	1.85		4.5
IP Protection	IP 43			IP 31
ENVIRONMENT				
Humidity	0 ~ 100% RH (Non-condensing)			5 ~ 95% RH (Non-condensing)
Operating Temperature	-20°C to 55°C			0°C to 55°C
Storage Temperature	-40°C to 75°C			-15°C to 60°C
Altitude	0 ~ 3000 m			

Product specifications are subject to change without further notice.

ESS510 Energy Storage System

5.5KW Solar inverter with 5KWh Lithium-ion battery

INTEGRATED SOLAR SYSTEM



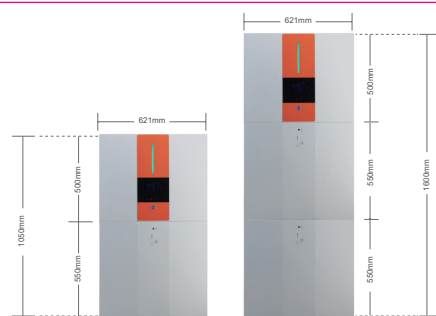
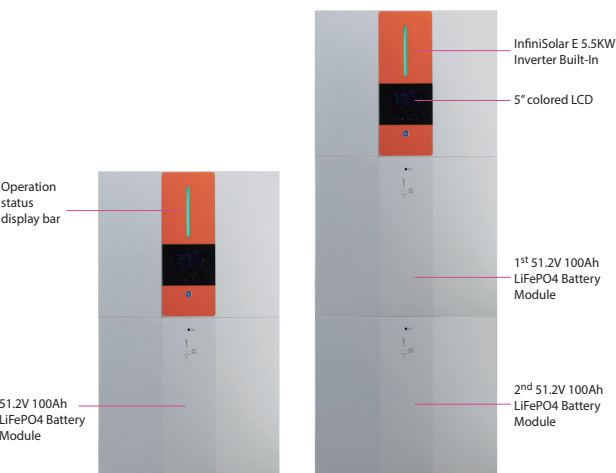
- Integrated 5.5kw hybrid solar inverter and lithium-ion battery module
- Self-consumption and Feed-back to the Grid
- Programmable supply priority for PV, battery or Grid
- User-adjustable battery charging current
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Built-in timer for various mode of on/off operation
- Multiple communication for USB, RS232, Modbus, SNMP, GPRS and Wi-Fi
- Monitoring software for real-time status display and control
- Enhance AC/Solar charger to 100A
- Scalable Li-Ion battery expansion
- Li-Ion battery life cycle: 8000 cycles at 25 °C
- High surge discharging current up to 3C
- IP 20

System Diagram



ESS510, 5.5kw hybrid inverter with 5KWh lithium-ion scalable battery module

DIMENSION



Maximum 10 pcs of battery modules



Wiring cover for parallel battery modules

ESS Energy Storage System Specification

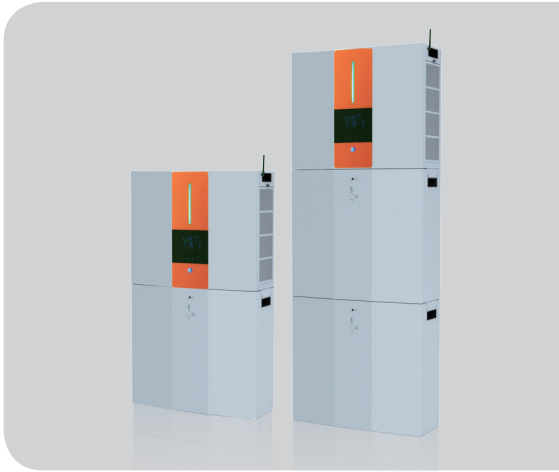
INVERTER MODEL	ESS 5.5KW
Maximum PV Input Power	6500W
Rated Output Power	5500W
Maximum Charging Power	2880W
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 13 A
GRID OUTPUT	
Nominal Output Voltage	208/220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC*
Max. Output Current	23.9A*
Maximum Conversion Efficiency (DC/AC)	96%
European Efficiency @ Vnominal	95%
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	170 -280 VAC
Maximum AC Input Current	40 A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	208/220/230/240 VAC
Efficiency (DC to AC)	93%
BATTERY CHARGER	
Nominal DC Voltage	48 VDC
Maximum Charging Current	100 A
PHYSICAL	
Dimension, D x W x H (mm)	214 x 621 x 500
Net Weight (kgs)	25

BATTERY MODULE	ESS II-4810
CAPACITY	5000Wh
PARAMETERS	
Nominal Voltage	51.2VDC
Full Charge Voltage (FC)	56V
Full Discharge Voltage (FD)	42V
Typical Capacity	100Ah
Max Continuous Discharging Current	150A
Max Discharging Current	192A at 1min
Protection	BMS, breaker
Charge Voltage	56V
Charge Current	20A (0.2C)
Maximum Charge Current	50A (0.5C)
Standard Charge Method	0.2C CC (Constant current) charge to FC, CV (Constant voltage FC) charge till charge current decline to <0.05C
Inner Resistance	<20m ohm
Dimension, D X W X H (mm)	214 x 621 x 550
Net Weight (kgs)	55

*These figures may vary depending on different AC voltage and contry regulation.
Product specifications are subject to change without further notice.

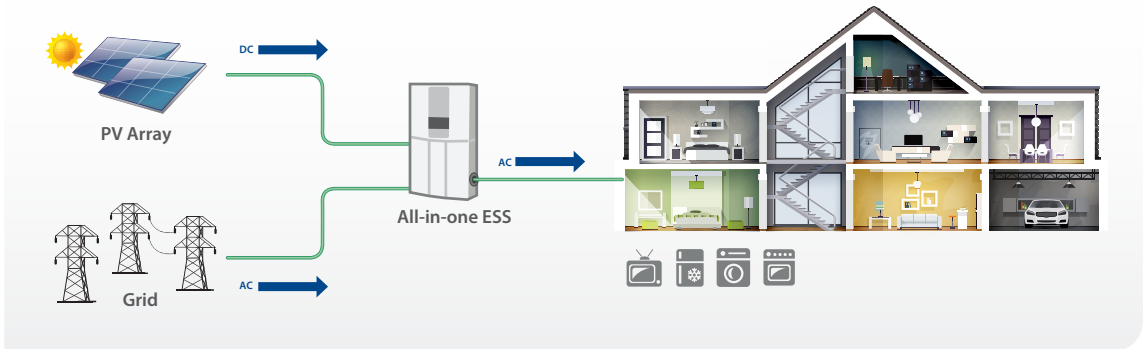
ESS810 Energy Storage System

8KW Off-Grid solar inverter with 5KWh Lithium-ion battery



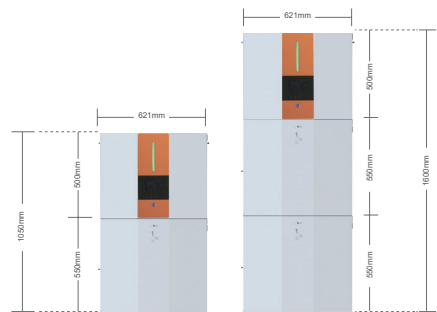
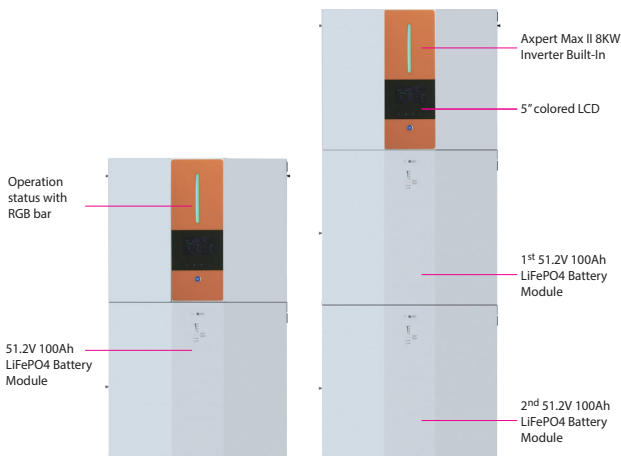
- Integrated 8kw off-grid inverter and lithium-ion battery module
- Built-in Wi-Fi for mobile monitoring (Android/iOS App is available)
- Supports USB On-the-Go function
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Configurable AC/PV output usage timer and prioritization
- Selectable high power charging current
- Selectable input voltage range for home appliances and personal computers
- Compatible to Utility Mains or generator input
- Scalable Li-Ion battery expansion
- IP20

System Diagram

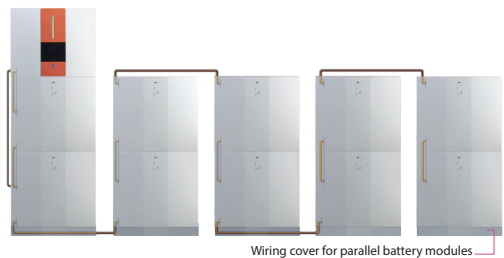


ESS810, 8kw off-grid inverter with scalable lithium-ion battery module

DIMENSION



Maximum 10 pcs of battery modules



ESS Energy Storage System Specification

INVERTER MODEL	ESS 8KW
Rated Inverter Power	8000VA/8000W
INPUT	
Voltage	230 VAC
Selectable Voltage Range	170-280 VAC (For Computers); 90-280 VAC (For Home Appliances)
Frequency Range	50 Hz/60 Hz (Auto sensing)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	230VAC \pm 5%
Surge Power	16000VA
Efficiency (Peak)	93%
Transfer Time	15 ms (For Personal Computers), 20 ms (For Home Appliances)
Waveform	Pure Sine Wave
No Load Power Consumption	<75W
SOLAR CHARGER & AC CHARGER	
Solar Charger type	MPPT
Maximum PV Array Power	8000W (4000W x 2)
MPPT Range @ Operating Voltage	90 ~ 450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC
Maximum Solar Charge Current	150 A
Maximum AC Charge Current	120 A
Maximum Charge Current	150 A
PHYSICAL	
Dimension, D x W x H (mm)	214 x 621 x 500
Net Weight (kgs)	25

BATTERY MODULE	ESS II-4810
CAPACITY	5000Wh
PARAMETERS	
Nominal Voltage	51.2VDC
Full Charge Voltage (FC)	56V
Full Discharge Voltage (FD)	42V
Typical Capacity	100Ah
Max Continuous Discharging Current	150A
Max Discharging Current	192A at 1min
Protection	BMS, breaker
Charge Voltage	56V
Charge Current	20A (0.2C)
Maximum Charge Current	50A (0.5C)
Standard Charge Method	0.2C CC (Constant current) charge to FC, CV (Constant voltage FC) charge till charge current decline to <0.05C
Inner Resistance	<20m ohm
Dimension, D X W X H (mm)	214 x 621 x 550
Net Weight (kgs)	55

Product specifications are subject to change without further notice.

LIO II-4810 is Lithium-ion battery module specially designed for energy storage system with 48V system

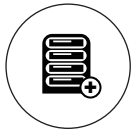
- Lithium Iron Phosphate (LFP) cell guarantees safety and reliability
- Easy to install on the floor
- Suitable for wide range of inverters with 48V system



Compact size and Lightweight
Built-in Lithium Iron Phosphate (LFP) cell with less space and weight.



Fast charging
Battery module can be fully charged in shorter time.

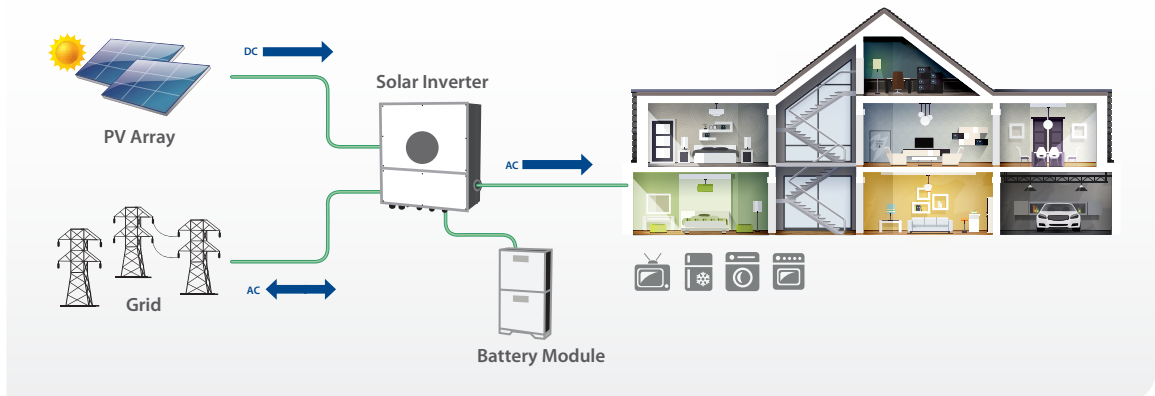


Modular design for easy scalable
Battery module can be easily stacked and added for energy expansion.

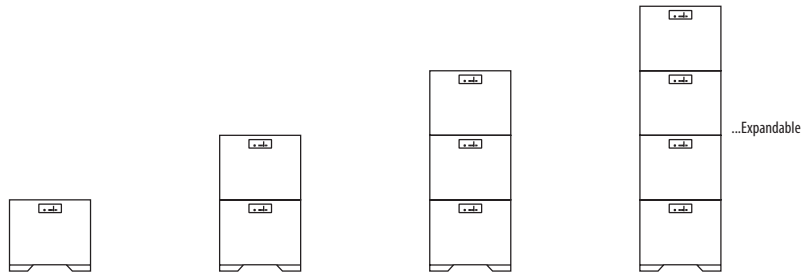


Maximum Lifecycle
8000 cycles is for 60% DOD with >50% capacity
2000 cycles is for 90% DOD with >80% capacity

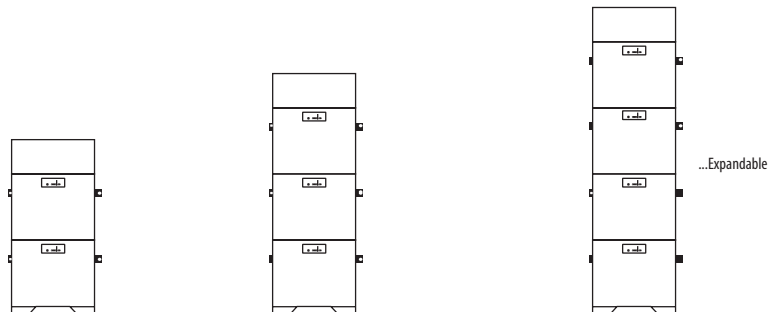
System Diagram



Technical Specification



Battery Module	LIO II-4810 (5 kWh, 51.2V)			
Battery Cell Technology	Lithium Iron Phosphate			
Applicable Inverter Rating	≤ 5.6 kW			
Number of Module	1	2	3	4
Usable Energy	5 kWh	10 kWh	15 kWh	20 kWh
Rated Discharging Current	150 A	150 A	150 A	150 A
Peak Discharging Current	192 A, 1 min	192 A, 1 min	192 A, 1 min	192 A, 1 min
Nominal Voltage	51.2 V	51.2 V	51.2 V	51.2 V
Operating Voltage	38 - 56VDC	38 - 56VDC	38 - 56VDC	38 - 56VDC
Charging Current	100A Max, 30A Default	100A Max, 30A Default	100A Max, 30A Default	100A Max, 30A Default
Dimension, D x W x H (mm) without feet	185 x 540 x 320	185 x 540 x 640	185 x 540 x 960	185 x 540 x 1280
Net Weight (kg)	48	96	144	192



Battery Module	LIO II-4810 (5 kWh, 51.2V)		
Battery Cell Technology	Lithium Iron Phosphate		
Applicable Inverter Rating	6 kW ~ 12 kW		
Number of Module	2	3	4
Number of PDU Module	1	1	1
Usable Energy	10 kWh	15 kWh	20 kWh
Rated Discharging Current	300 A	300 A	300 A
Peak Discharging Current	384 A, 1 min	384 A, 1 min	384 A, 1 min
Nominal Voltage	48 V	51.2 V	51.2 V
Operating Voltage	38 - 56 VDC	38 - 56 VDC	38 - 56 VDC
Dimension, D x W x H (mm) without feet	184 x 540 x 1060	185 x 540 x 960	185 x 540 x 1280
Net Weight (kg)	102	150	198

General Specification

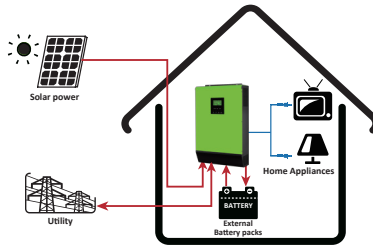
Operation Temperature	Charge	0°C~50 °C
	Discharge	0°C~50 °C
Storage Temperature (At 50% SOC and specified temp, recoverable capacity in % vs time / 50%)	< 18 months:	-20°C~25 °C
	< 3 months:	25°C~45 °C
	< 1 months:	45°C~60 °C
	20°C ± 5 °C is the recommended storage temperature	
IP Protection	IP20	
Communication	RS485 port (RJ45), CAN	
Certifications	UN38.3, IEC 62619	

Product specifications are subject to change without further notice.

InfiniSolar V



- Pure sine wave output
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie (with battery connected), off-grid and grid-tie with backup
- Monitoring software for real-time status display and control
- Parallel operation up to 9 units only for 3K/4K/5K models



InfiniSolar V On-Grid Inverter With Energy Storage Selection Guide

MODEL	InfiniSolar V-1K-12	InfiniSolar V-2K-24	InfiniSolar V-3K-48	InfiniSolar V-4K-48	InfiniSolar V-5K-48
Max. PV Array Power	1000W	2000W	4000W	4000W	6000W
Rated Output Power	1000W	2000W	3000W	4000W	5000W
Maximum PV Array Open Circuit Voltage	145 VDC	145 VDC	145 VDC	145 VDC	145 VDC
MPPT Range @ Operating Voltage	15 VDC ~ 115 VDC	30 VDC ~ 115 VDC	60 VDC ~ 115 VDC	60 VDC ~ 115 VDC	60 VDC ~ 115 VDC
MPP Tracker Number	1	1	1	1	2
GRID-TIE OPERATION					
GRID OUTPUT (AC)					
Nominal Output Voltage	220/230/240 VAC				
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)				
Nominal Output Current	4.3 A	8.7 A	13 A	17.4 A	21.7 A
Power Factor	> 0.99				
EFFICIENCY					
Maximum Conversion Efficiency (DC/AC)	90%				
OFF-GRID, HYBRID OPERATION					
GRID INPUT					
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC				
Frequency Range	50 Hz/60 Hz (Auto sensing)				
Maximum AC Input Current	10A	20A		40A	
BATTERY MODE OUTPUT (AC)					
Nominal Output Voltage	220/230/240 VAC				
Output Waveform	Pure sine wave				
Efficiency (DC to AC)	93%				
BATTERY & CHARGER					
Nominal DC Voltage	12 VDC	24 VDC	48 VDC	48 VDC	48 VDC
Maximum Solar Charge Current	80 A	80 A	80 A	80 A	120 A
Maximum AC Charge Current	60 A				
Maximum Charge Current	140 A	140 A	140 A	140 A	180 A
GENERAL					
PHYSICAL					
Dimension, D x W x H (mm)	100 x 300 x 440	100 x 300 x 440	120 x 295 x 468	120 x 295 x 468	190 x 295 x 483
Net Weight (kgs)	8	8	11	11	16
INTERFACE					
Parallel Function	N/A	N/A	Yes	Yes	Yes
External Safety Box (Optional)	Yes				
Communication Ports	USB or RS232/Dry-Contact				
ENVIRONMENT					
Humidity	0 ~ 90% RH (Non-condensing)				
Operating Temperature	0 to 50°C				

Product specifications are subject to change without further notice.

InfiniSolar V II

Operation without battery



InfiniSolar V II-1.5KW InfiniSolar V II-2KW / 3KW/5KW InfiniSolar V II-6KW

- Pure sine wave output
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Monitoring software for real-time status display and control
- Parallel operation up to 9 units only for 2KW/3KW/5KW/6KW models
- Battery Independent system

InfiniSolar V II On-Grid Inverter With Energy Storage Selection Guide

MODEL	InfiniSolar V II 1.5KW	InfiniSolar V II 2KW	InfiniSolar V II 3KW-24V	InfiniSolar V II 3KW-48V	InfiniSolar V II 5KW	InfiniSolar V II 6KW
PHASE	1-phase in / 1-phase out					
MAXIMUM PV INPUT POWER	2000W	3000W	4000W	4000 W	5000W	6000W
RATED OUTPUT POWER	1500W	2000W	3000 W	3000W	5000W	6000W
MAXIMUM CHARGING POWER	2000W	2880W	2880W	2880W	5000W	5000W
GRID-TIE OPERATION						
PV INPUT (DC)						
Nominal DC Voltage / Maximum DC Voltage	120 VDC / 400 VDC	240 VDC / 450 VDC	360 VDC / 450 VDC	360 VDC / 450 VDC	60 VDC / 450 VDC	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	130VDC / 150 VDC	130VDC / 150 VDC	130VDC / 150 VDC	130VDC / 150 VDC	130VDC / 150 VDC	130VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 380 VDC	90 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 18 A	1 / 18 A	1 / 18A	1 / 18A	1 / 18A	1 / 27A
GRID OUTPUT (AC)						
Nominal Output Voltage	220/230/240 VAC					
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)					
Nominal Output Current	6.5A	8.7A	13A	13A	21.7A	26A
Power Factor	> 0.99					
EFFICIENCY						
Maximum Conversion Efficiency (DC/AC)	95%					
OFF-GRID OPERATION						
AC INPUT						
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC					
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC					
Frequency Range	50 Hz/60 Hz (Auto sensing)					
Maximum AC Input Current	30 A	30 A	40 A	40 A	40 A	40 A
PV INPUT (DC)						
Maximum DC Voltage	400 VDC	450 VDC	450 VDC	450 VDC	450 VDC	500 VDC
MPP Voltage Range	120 VDC ~ 380 VDC	90 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 18 A	1 / 18 A	1 / 18 A	1 / 18 A	1 / 18A	1 / 27A
BATTERY MODE OUTPUT (AC)						
Nominal Output Voltage	220/230/240 VAC					
Output Waveform	Pure sine wave					
Efficiency (DC to AC)	93%	93%	93%	93%	93%	93%
HYBRID OPERATION						
PV INPUT (DC)						
Nominal DC Voltage / Maximum DC Voltage	120 VDC / 400 VDC	240 VDC / 450 VDC	360 VDC / 450 VDC	360 VDC / 450 VDC	360 VDC / 450 VDC	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	130VDC / 150 VDC	130VDC / 150 VDC	130VDC / 150 VDC	130VDC / 150 VDC	120VDC / 150 VDC	130VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 380 VDC	90 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 18 A	1 / 18 A	1 / 18A	1 / 18A	1 / 18A	1 / 27A
GRID OUTPUT (AC)						
Nominal Output Voltage	220/230/240 VAC					
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)					
Nominal Output Current	6.5A	8.7A	13A	13A	21.7A	26A
AC INPUT						
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC					
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC					
Maximum AC Input Current	30 A	30 A	40 A	40 A	40 A	40 A
BATTERY MODE OUTPUT (AC)						
Nominal Output Voltage	220/230/240 VAC					
Efficiency (DC to AC)	93%	93%	93%	93%	93%	93%
BATTERY & CHARGER						
Nominal DC Voltage	48 VDC	48 VDC	24 VDC	48 VDC	48 VDC	48 VDC
Maximum Solar Charging Current	30A	60 A	60 A	60 A	100 A	120 A
Maximum AC Charging Current	40A	60 A	60 A	60 A	100 A	120 A
Maximum Charging Current	40A	60 A	60 A	60 A	100 A	120 A
GENERAL						
PHYSICAL						
Dimension, D x W x H (mm)	100 x 300 x 440	120 x 295 x 468	120 x 295 x 468	120 x 295 x 468	120 x 295 x 468	120 x 295 x 468
Net Weight (kgs)	8	11	11	11	12	12
INTERACE						
Parallel Function	N/A	Yes, 9 units	Yes, 9 units	Yes, 9 units	Yes, 9 units	Yes, 9 units
Communication Port	USB or RS-232/Dry Contact					
ENVIRONMENT						
Humidity	0 ~ 90% RH (No condensing)					
Operating Temperature	-10°C to 50°C					

Product specifications are subject to change without further notice.

InfiniSolar V II TWIN

Operation without battery



- Maximum PV input current 27A
- Dual outputs for smart load management
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Monitoring software for real-time status display and control
- Parallel operation up to 9 units

ON-GRID INVERTER WITH ENERGY STORAGE

InfiniSolar V II TWIN On-Grid Inverter With Energy Storage Selection Guide

MODEL	InfiniSolar V II TWIN 5KW	InfiniSolar V II TWIN 6KW
PHASE	1-phase in / 1-phase out	
MAXIMUM PV INPUT POWER	6000W	6500W
RATED OUTPUT POWER	5000W	6000W
MAXIMUM CHARGING POWER	6000W	6000W
GRID-TIE OPERATION		
PV INPUT (DC)		
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC	
Start-up Voltage / Initial Feeding Voltage	130VDC / 150 VDC	
MPP Voltage Range	120 VDC ~ 430 VDC	
Number of MPP Trackers / Maximum Input Current	1 / 27A	
GRID OUTPUT (AC)		
Nominal Output Voltage	220/230/240 VAC	
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)	
Nominal Output Current	26A	26A
Power Factor	> 0.99	
EFFICIENCY		
Maximum Conversion Efficiency (DC/AC)	95%	
OFF-GRID OPERATION		
AC INPUT		
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC	
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
Maximum AC Input Current	40 A	40 A
PV INPUT (DC)		
Maximum DC Voltage	500 VDC	
MPP Voltage Range	120 VDC ~ 430 VDC	
Number of MPP Trackers / Maximum Input Current	1 / 27A	
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	220/230/240 VAC	
Output Waveform	Pure sine wave	
Efficiency (DC to AC)	93%	93%
HYBRID OPERATION		
PV INPUT (DC)		
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC	
Start-up Voltage / Initial Feeding Voltage	130VDC / 150 VDC	
MPP Voltage Range	120 VDC ~ 430 VDC	
Number of MPP Trackers / Maximum Input Current	1 / 27A	
GRID OUTPUT (AC)		
Nominal Output Voltage	220/230/240 VAC	
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)	
Nominal Output Current	26A	26A
AC INPUT		
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC	
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC	
Maximum AC Input Current	40 A	40 A
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	220/230/240 VAC	
Efficiency (DC to AC)	93%	93%
BATTERY & CHARGER		
Nominal DC Voltage	48 VDC	48 VDC
Maximum Solar Charging Current	120 A	120 A
Maximum AC Charging Current	120 A	120 A
Maximum Charging Current	120 A	120 A
GENERAL		
PHYSICAL		
Dimension, D x W x H (mm)	120 x 295 x 468	120 x 295 x 468
Net Weight (kgs)	12	12
INTERACE		
Parallel Function	Yes, 9 units	Yes, 9 units
Communication Port	USB or RS-232/Dry Contact	
ENVIRONMENT		
Humidity	0 ~ 90% RH (No condensing)	
Operating Temperature	-10°C to 50°C	

Product specifications are subject to change without further notice.

InfiniSolar VIII

ON-GRID INVERTER WITH ENERGY STORAGE



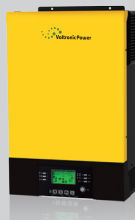
- Pure sine wave output
- Self-consumption and Feed-in to the grid
- Built-in MPPT solar charger
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Detachable LCD panel
- Built-in WiFi for mobile monitoring (APP is available)
- Supports USB on-the-go function
- Reserve BMS communication
- Parallel operation up to 9 units

InfiniSolar VIII On-Grid Inverter with Energy Storage Selection Guide

MODEL	InfiniSolar V III 2KW	InfiniSolar V III 3KW	InfiniSolar V III 5KW	InfiniSolar V III 6KW
PHASE	1-phase in / 1-phase out			
MAXIMUM PV INPUT POWER	3000W	4500W	6000W	6000W
RATED OUTPUT POWER	2000W	3000W	5000W	6000W
MAXIMUM CHARGING POWER	3000W	3000W	5000W	6000W
GRID-TIE OPERATION				
PV INPUT (DC)				
Nominal DC Voltage / Maximum DC Voltage	240 VDC / 500 VDC	360 VDC / 500 VDC	360 VDC / 450 VDC	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC	120VDC / 150 VDC	120VDC / 150 VDC	120VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 13 A	1 / 13A	1 / 27A	1 / 27A
GRID OUTPUT (AC)				
Nominal Output Voltage	220/230/240 VAC			
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)			
Nominal Output Current	8.7A	13A	21.7A	26.1A
Power Factor	> 0.99			
EFFICIENCY				
Maximum Conversion Efficiency (DC/AC)	95%			
OFF-GRID OPERATION				
AC INPUT				
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC			
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC			
Frequency Range	50 Hz/60 Hz (Auto sensing)			
Maximum AC Input Current	30 A	40 A	40 A	40 A
PV INPUT (DC)				
Maximum DC Voltage	500 VDC	500 VDC	450 VDC	500 VDC
MPP Voltage Range	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 13 A	1 / 13A	1 / 27A	1 / 27A
BATTERY MODE OUTPUT (AC)				
Nominal Output Voltage	220/230/240 VAC			
Output Waveform	Pure sine wave			
Efficiency (DC to AC)	93%	93%	93%	93%
HYBRID OPERATION				
PV INPUT (DC)				
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC	360 VDC / 500 VDC	360 VDC / 450 VDC	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC	120VDC / 150 VDC	120VDC / 150 VDC	120VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 13 A	1 / 13A	1 / 27A	1 / 27A
GRID OUTPUT (AC)				
Nominal Output Voltage	220/230/240 VAC			
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)			
Nominal Output Current	8.7A	13A	21.7A	26.1A
AC INPUT				
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC			
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC			
Maximum AC Input Current	30 A	40 A	40 A	40 A
BATTERY MODE OUTPUT (AC)				
Nominal Output Voltage	220/230/240 VAC			
Efficiency (DC to AC)	93%	93%	93%	93%
BATTERY & CHARGER				
Nominal DC Voltage	48 VDC			
Maximum Solar Charging Current	60 A	60 A	100 A	120 A
Maximum AC Charging Current	60 A	60 A	100 A	120 A
Maximum Charging Current	60 A	60 A	100 A	120 A
GENERAL				
PHYSICAL				
Dimension, D x W x H (mm)	140 x 295 x 468			
Net Weight (kgs)	11	11	12	14
INTERFACE				
Parallel Function	Yes, 9 units			
Communication Port	USB, RS-232, Dry Contact and WiFi			
ENVIRONMENT				
Humidity	0 ~ 90% RH (No condensing)			
Operating Temperature	-10°C to 50°C			

Product specifications are subject to change without further notice.

InfiniSolar VIII TWIN



- Maximum PV input current 27A
- Dual outputs for smart load management
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Detachable LCD panel
- Built-in WiFi for mobile monitoring (APP is available)
- Supports USB on-the-go function
- Reserve BMS communication
- Parallel operation up to 9 units

ON-GRID INVERTER WITH ENERGY STORAGE

InfiniSolar VIII TWIN On-Grid Inverter with Energy Storage Selection Guide

MODEL	InfiniSolar V III TWIN 6KW
PHASE	1-phase in / 1-phase out
MAXIMUM PV INPUT POWER	6000W
RATED OUTPUT POWER	6000W
MAXIMUM CHARGING POWER	6000W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27A
GRID OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)
Nominal Output Current	26A
Power Factor	> 0.99
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	95%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC
Frequency Range	50 Hz/60 Hz (Auto sensing)
Maximum AC Input Current	40 A
PV INPUT (DC)	
Maximum DC Voltage	500 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Waveform	Pure sine wave
Efficiency (DC to AC)	93%
HYBRID OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27A
GRID OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)
Nominal Output Current	26A
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC
Maximum AC Input Current	40 A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Efficiency (DC to AC)	93%
BATTERY & CHARGER	
Nominal DC Voltage	48 VDC
Maximum Solar Charging Current	120 A
Maximum AC Charging Current	120 A
Maximum Charging Current	120 A
GENERAL	
PHYSICAL	
Dimension, D x W x H (mm)	140 x 295 x 468
Net Weight (kgs)	14
INTERFACE	
Parallel Function	Yes, 9 units
Communication Port	USB, RS-232, Dry Contact and WiFi
ENVIRONMENT	
Humidity	0 ~ 90% RH (No condensing)
Operating Temperature	-10°C to 50°C

Product specifications are subject to change without further notice.

InfiniSolar V IV

ON-GRID INVERTER WITH ENERGY STORAGE



- Customizable status LED ring with RGB lights
- Touchable button with 4.3" colored LCD
- Supports USB On-the-Go function
- Data log events stored in the inverter
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Built-in Wi-Fi for mobile monitoring (App is available)
- Reserved communication port for BMS
- Parallel operation up to 9 units

InfiniSolar V IV On-Grid Inverter with Energy Storage Selection Guide

MODEL	InfiniSolar V IV 3.6KW	InfiniSolar V IV 5.6KW	InfiniSolar V IV 6KW
PHASE	1-phase in / 1-phase out		
MAXIMUM PV INPUT POWER	5000W	6000W	6500W
RATED OUTPUT POWER	3600W	5600W	6000W
MAXIMUM CHARGING POWER	5000W	6000W	6000W
GRID-TIE OPERATION			
PV INPUT (DC)			
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC	360 VDC / 450 VDC	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	110VDC / 120 VDC	110VDC / 120 VDC	120VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 18 A	1 / 27 A	1 / 27A
GRID OUTPUT (AC)			
Nominal Output Voltage	220/230/240 VAC		
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)		
Nominal Output Current	15.6A	24.3A	26.1A
Power Factor	> 0.9		
EFFICIENCY			
Maximum Conversion Efficiency (DC/AC)	96%	96%	95%
OFF-GRID OPERATION			
AC INPUT			
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC		
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC		
Maximum AC Input Current	40 A	40 A	40 A
PV INPUT (DC)			
Maximum DC Voltage	500 VDC	450 VDC	500 VDC
MPP Voltage Range	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 18 A	1 / 27 A	1 / 27 A
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	220/230/240 VAC		
Output Waveform	Pure sinewave		
Efficiency (DC to AC)	93%	93%	93%
HYBRID OPERATION			
PV INPUT (DC)			
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC	360 VDC / 450 VDC	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	110VDC / 120 VDC	110VDC / 120 VDC	120VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 18 A	1 / 27 A	1 / 27A
GRID OUTPUT (AC)			
Nominal Output Voltage	220/230/240 VAC		
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)		
Nominal Output Current	15.6A	24.3A	26.1A
AC INPUT			
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC		
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC		
Maximum AC Input Current	40A	40A	40A
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	220/230/240 VAC		
Efficiency (DC to AC)	93%	93%	93%
BATTERY & CHARGER			
Nominal DC Voltage	48 VDC	48 VDC	48 VDC
Maximum Solar Charging Current	100A	120A	120A
Maximum AC Charging Current	100A	120A	120A
Maximum Charging Current	100A	120A	120A
GENERAL			
PHYSICAL			
Dimension, D x W x H (mm)	140 x 295 x 468		
Net Weight (kgs)	11	12	12
INTERFACE			
Parallel Function	Yes, 9 units		
Communication Port	USB/RS232/RS485/Wifi/Dry-contact		
ENVIRONMENT			
Humidity	0 ~ 90% RH (Non-condensing)		
Operating Temperature	-10 to 50°C		

Product specifications are subject to change without further notice.

InfiniSolar V IV TWIN



- Maximum PV input current 27A
- Dual outputs for smart load management
- Touchable button with 4.3" colored LCD
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Built-in Wi-Fi for mobile monitoring (App is available)
- Reserved communication port for BMS
- Parallel operation up to 9 units

ON-GRID INVERTER WITH ENERGY STORAGE

InfiniSolar V IV TWIN On-Grid Inverter with Energy Storage Selection Guide

MODEL	InfiniSolar V IV TWIN 6KW
PHASE	1-phase in / 1-phase out
MAXIMUM PV INPUT POWER	6000W
RATED OUTPUT POWER	6000W
MAXIMUM CHARGING POWER	6000W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27A
GRID OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)
Nominal Output Current	26A
Power Factor	> 0.9
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	95%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC
Maximum AC Input Current	40 A
PV INPUT (DC)	
Maximum DC Voltage	500 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27 A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Waveform	Pure sinewave
Efficiency (DC to AC)	93%
HYBRID OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27A
GRID OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)
Nominal Output Current	26A
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC
Maximum AC Input Current	40A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Efficiency (DC to AC)	93%
BATTERY & CHARGER	
Nominal DC Voltage	48 VDC
Maximum Solar Charging Current	120A
Maximum AC Charging Current	120A
Maximum Charging Current	120A
GENERAL	
PHYSICAL	
Dimension, D x W x H (mm)	140 x 295 x 468
Net Weight (kgs)	12
INTERFACE	
Parallel Function	Yes, 9 units
Communication Port	USB/RS232/RS485/Wifi/Dry-contact
ENVIRONMENT	
Humidity	0 ~ 90% RH (Non-condensing)
Operating Temperature	-10 to 50°C

Product specifications are subject to change without further notice.

InfiniSolar V II 3P/3P



- Pure sine wave output
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Monitoring software for real-time status display and control
- 3 MPPT Inputs up to 180A solar charging current at 48Vdc battery voltage

InfiniSolar V II 3-phase in/3-phase out On-Grid Inverter With Energy Storage Selection Guide

MODEL	InfiniSolar V II 3P-6KW Tower	InfiniSolar V II 3P-9KW Tower	InfiniSolar V II 3P-15KW Tower
PHASE	3-phase in / 3-phase out		
Max. PV Array Power	9000W	12000W	15000W
Rated Output Power	6000W	9000W	15000W
Maximum PV Array Open Circuit Voltage	450 VDC	450 VDC	450 VDC
MPPT Range @ Operating Voltage	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
MPP Tracker Number	3	3	3
GRID-TIE OPERATION			
GRID OUTPUT (AC)			
Nominal Output Voltage	220/230/240 VAC (P-N) / 380/400/415 VAC (P-P)		
Output Voltage Range	195.5 - 253 VAC per phase @ India Regulation 184 - 264.5 VAC per phase @ German Regulation		
Nominal Output Current	8.7 A per phase	13 A per phase	21.7 A per phase
Power Factor	> 0.99		
EFFICIENCY			
Maximum Conversion Efficiency (DC/AC)	95%	95%	95%
OFF-GRID, HYBRID OPERATION			
GRID INPUT			
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC per phase		
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC per phase		
Frequency Range	50 Hz/60 Hz (Auto sensing)		
Maximum AC Input Current	20 A per phase	30 A per phase	30 A per phase
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	220/230/240 VAC per phase		
Output Waveform	Pure sine wave		
Efficiency (DC to AC)	93%		
BATTERY & CHARGER			
Nominal DC Voltage	48 VDC		
Maximum Solar Charge Current	180 A		
Maximum AC Charge Current	180 A		
Maximum Charge Current	180 A		
GENERAL			
PHYSICAL			
Dimension, D x W x H (mm)	588 x 260 x 655		
Net Weight (kgs)	36	38	40
INTERFACE			
Communication Ports	USB, RS-232 and dry contact		
ENVIRONMENT			
Humidity	0 ~ 90% RH (Non-condensing)		
Operating Temperature	0 to 50°C		

Product specifications are subject to change without further notice.

InfiniSolar: On-Grid Inverter with Energy Storage

Innovative and Cost-effective Power Solution

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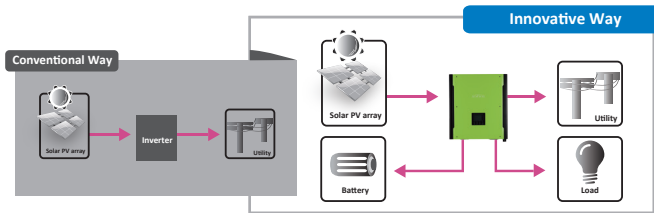
- Self-consumption and feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable battery charging current suits different types of batteries
- Programmable multiple operations modes: Grid tie, Off grid, and grid-tie with backup
- Built-in Timer for various mode of on/off operation
- Multiple communication for USB, RS-232, Modbus and SNMP
- Monitoring software for real time status display and control
- Custom-made firmware by ODM contract
- Parallel operation up to 6 units for 5KW / 10KW and 15KW

InfiniSolar is a flexible and intelligent hybrid inverter which utilizes solar power, AC utility, and battery power source to supply continuous power. It's a simple and smart solar power storage system for home users to either store energy into a battery for night-time usage or use for self-consumption first depending on demands. Priority for power source is programmable through smart software. During night time or power failure, it will automatically consume reserved power from the battery. In this way, it will reduce dependence on the utility.



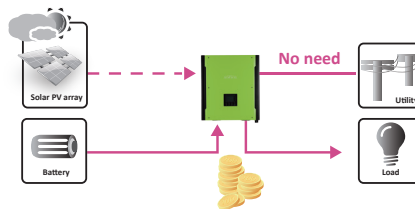
Feed-in is not the only choice

In comparison with conventional grid-tie inverter, InfiniSolar can not only feed-in power to the grid but also store solar power to the battery for future usage and directly power to the loads.



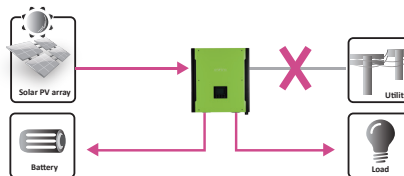
Save money by discharging battery for self-consumption first

InfiniSolar can save money by using battery energy first when PV energy is low. Until battery energy is low, InfiniSolar will consume AC power from the grid.



Power backup when AC failed

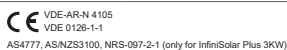
InfiniSolar can operate as an off-grid inverter to provide continuous power even without the grid. It's a perfect power solution for remote regions or temporary AC power source for camping or night market.



InfiniSolar On-grid Inverter with Energy Storage Selection Guide

MODEL	InfiniSolar 2KW	InfiniSolar Plus II 3KW	InfiniSolar Plus 5KW	InfiniSolar 3P 10KW	InfiniSolar 3P 15KW
PHASE	1-phase in / 1-phase out			3-phase in / 3-phase out	
MAXIMUM PV INPUT POWER	2250 W	4500 W	10000 W	14850 W	22500 W
RATED OUTPUT POWER	2000 W	3000 W	5000 W	10000 W	15000 W
MAXIMUM CHARGING POWER	1200 W	2880W	4800 W	9600 W	15000 W
GRID-TIE OPERATION					
PV INPUT (DC)					
Nominal DC Voltage / Maximum DC Voltage	300 VDC / 350 VDC	360 VDC / 500 VDC	720 VDC / 900 VDC	720 VDC / 900 VDC	720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	80 VDC / 120 VDC	116 VDC / 150 VDC	225 VDC / 250 VDC	320 VDC / 350 VDC	320 VDC / 350 VDC
MPP Voltage Range	120 VDC ~ 320 VDC	250 VDC ~ 450 VDC	250 VDC ~ 850 VDC	400 VDC ~ 800 VDC	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 15 A	1 / 1 x 18 A	2 / 2 x 10 A	2 / 2 x 18.6A	2 / A: 37.65A; B: 18.6A
GRID OUTPUT (AC)					
Nominal Output Voltage	101/110/120/127 VAC	208/220/230/240 VAC		230 VAC (P-N) / 400 VAC (P-P)	
Output Voltage Range	88 - 127 VAC*	184 - 265 VAC*		184 - 265VAC* per phase	184 - 264.5VAC per phase
Nominal Output Current	18 A	13 A	21 A	14.5A per phase	21.7A per phase
Power Factor	> 0.99				
EFFICIENCY					
Maximum Conversion Efficiency (DC/AC)	95%		96%		
European Efficiency@ Vnominal	94%		95%		
OFF-GRID OPERATION					
AC INPUT					
AC Start-up Voltage/Auto Restart Voltage	60 - 70 VAC / 85 VAC	120 - 140 VAC / 180 VAC		120 - 140 VAC per phase / 180 VAC per phase	
Acceptable Input Voltage Range	80 - 130 VAC	170 - 280 VAC		170 - 280 VAC per phase	
Maximum AC Input Current	30 A		40 A		
PV INPUT (DC)					
Maximum DC Voltage	350 VDC	500 VDC	900 VDC	900 VDC	900 VDC
MPP Voltage Range	150 VDC ~ 320 VDC	250 VDC ~ 450 VDC	250 VDC ~ 850 VDC	400 VDC ~ 800 VDC	350 VDC ~ 850 VDC
Number of MPP Trackers/Maximum Input Current	1 / 1 x 15 A	1 / 1 x 18 A	2 / 2 x 10A	2 / 2 x 18.6A	2 / A: 37.65A; B: 18.6A
BATTERY MODE OUTPUT (AC)					
Nominal Output Voltage	101/110/120/127 VAC	208/220/230/240 VAC	202/208/220/230/240 VAC	230 VAC (P-N) / 400 VAC (P-P)	230 VAC (P-N) / 400 VAC (P-P)
Output Waveform	Pure Sinewave				
Efficiency (DC to AC)	90%	93%		91%	91%
HYBRID OPERATION					
PV INPUT (DC)					
Nominal DC Voltage / Maximum DC Voltage	300 VDC / 350 VDC	360 VDC / 500 VDC	720 VDC / 900 VDC	720 VDC / 900 VDC	720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	80 VDC / 120 VDC	116 VDC / 150 VDC	225 VDC / 250 VDC	320 VDC / 350 VDC	320 VDC / 350 VDC
MPP Voltage Range	150 VDC ~ 320 VDC	250 VDC ~ 450 VDC	250 VDC ~ 850 VDC	400 VDC ~ 800 VDC	350 VDC ~ 850 VDC
Number of MPP Trackers/Maximum Input Current	1 / 1 x 15 A	1 / 1 x 18 A	2 / 2 x 10A	2 / 2 x 18.6A	2 / A: 37.65A; B: 18.6A
GRID OUTPUT (AC)					
Nominal Output Voltage	101/110/120/127 VAC	208/220/230/240 VAC	202/208/220/230/240 VAC	230 VAC (P-N) / 400 VAC (P-P)	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	88-127 VAC*	184 - 265 VAC*		184 - 265 VAC* per phase	184 - 264.5 VAC per phase
Nominal Output Current	18 A	13 A	21 A	14.5 A per phase	21.7A per phase
AC INPUT					
AC Start-up Voltage / Auto Restart Voltage	60 - 70 VAC / 85 VAC	120 - 140 VAC / 180 VAC		120 - 140 VAC per phase / 180 VAC per phase	120 - 140 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	80 - 130 VAC	170 - 280 VAC		170 - 280 VAC per phase	170 - 280 VAC per phase
Maximum AC Input Current	30 A		40 A		
BATTERY MODE OUTPUT (AC)					
Nominal Output Voltage	101/110/120/127 VAC	208/220/230/240 VAC	202/208/220/230/240 VAC	230 VAC (P-N) / 400 VAC (P-P)	230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC to AC)	90%	93%		91%	91%
BATTERY & CHARGER					
Nominal DC Voltage	48 VDC				
Maximum Charging Current	Default 25A, 5A - 25A (Adjustable)	Default 25 A, 5A - 60A (Adjustable)	Default 60A, 5A - 100A (Adjustable)	Default 60A, 10A - 200A (Adjustable)	Default 60A, 5A - 300A (Adjustable)
GENERAL					
PHYSICAL					
Dimension, D x W x H (mm)	107 x 438 x 480		204.2 x 460 x 600	167.2 x 500 x 622	219 x 650 x 820
Net Weight (kgs)	15.5		29	40	62
INTERFACE					
Communication Port	RS-232/USB		RS-232/USB		RS-232, USB and Dry contact
Intelligent Slot	Optional SNMP, Modbus and AS-400 cards available				
ENVIRONMENT					
Humidity	0 ~ 90% RH (Non-Condensing)				
Operating Temperature	0 to 40°C		-10 to 55°C		
Altitude	0 ~ 1000 m**				

*These figures may vary depending on different AC voltage and country requirements.
 **Power derating 1% every 100 m when altitude is over 1000m.
 Product specifications are subject to change without further notice.



InfiniSolar Super 4KW



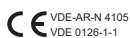
- Self-consumption and feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable battery charging current suits different types of batteries
- Programmable multiple operations modes: grid-tie, off-grid, and grid-tie with backup
- Built-in timer for various mode of on/off operation
- Multiple communication for USB, RS-232, Modbus and SNMP
- Monitoring software for real time status display and control
- 80A of AC & PV Charger capability
- Support parallel up to 6 units
- PV input power is 50% higher of inverter rating to support more power for batter charging even with full load connected.

InfiniSolar Super On-Grid Inverter with Energy Storage Specification

MODEL	InfiniSolar Super 4KW	
PHASE	1-phase in / 1-phase out	
MAXIMUM PV INPUT POWER	5000 W	
RATED OUTPUT POWER	4000 W	
MAXIMUM CHARGING POWER	4000 W	
GRID-TIE OPERATION		
PV INPUT (DC)		
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 580 VDC	
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC	
MPP Voltage Range	280 VDC ~ 500 VDC	
Number of MPP Trackers / Maximum Input Current	1 / 1 x 18 A	
GRID OUTPUT (AC)		
Nominal Output Voltage	202/208/220/230/240 VAC	
Output Voltage Range	184-264.5 VAC*	
Nominal Output Current	17.5 A	
Power Factor	> 0.99	
EFFICIENCY		
Maximum Conversion Efficiency (DC/AC)	96%	
European Efficiency@ Vnominal	95%	
OFF-GRID OPERATION		
AC INPUT		
AC Start-up Voltage / Auto Restart Voltage	120-140 VAC / 180 VAC	
Acceptable Input Voltage Range	170-280 VAC	
Maximum AC Input Current	40 A	
PV INPUT (DC)		
Maximum DC Voltage	580 VDC	
MPP Voltage Range	280 VDC ~ 500 VDC	
Number of MPP Trackers / Maximum Input Current	1 / 1 x 18 A	
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	202/208/220/230/240 VAC	
Output Waveform	Pure sinewave	
Efficiency (DC to AC)	91%	
HYBRID OPERATION		
PV INPUT (DC)		
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 580 VDC	
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC	
MPP Voltage Range	280 VDC ~ 500 VDC	
Number of MPP Trackers / Maximum Input Current	1 / 1 x 18 A	
GRID OUTPUT (AC)		
Nominal Output Voltage	202/208/220/230/240 VAC	
Output Voltage Range	184-264.5 VAC*	
Nominal Output Current	17.5 A	
AC INPUT		
AC Start-up Voltage / Auto Restart Voltage	120-140 VAC / 180 VAC	
Acceptable Input Voltage Range	170-280 VAC	
Maximum AC Input Current	40A	
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	202/208/220/230/240 VAC	
Efficiency (DC to AC)	91%	
BATTERY & CHARGER		
Nominal DC Voltage	48 VDC	
Maximum Charging Current	80 A	
GENERAL		
PHYSICAL		
Dimension, D x W x H (mm)	117 x 438 x 535	
Net Weight (kgs)	16.2	
INTERFACE		
Communication Port	USB/Dry contact	
Intelligent Slot	Optional SNMP, Modbus and AS-400 cards	
ENVIRONMENT		
Humidity	0 ~ 90% RH (Non-condensing)	
Operating Temperature	0 to 40°C	
Altitude	0 ~ 1000 m**	

*These figures may vary depending on different AC voltage and country requirements.

** Power derating 1% every 100m when altitude is over 1000m
Product specifications are subject to change without further notice.



AS4777
NRS-097-2.1



Voltronic Power

Advancing Power

InfiniSolar E 5.5KW



- Pure sine wave output
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable battery charging current suits different types of batteries
- Programmable multiple operation modes: grid-tie, off-grid and grid-tie with backup
- Built-in timer for various mode of on/off operation
- Built-in 2 strings of MPP trackers
- 60A of AC & PV charge capability
- Optional DC switch

InfiniSolar E 5.5KW On-Grid Inverter with Energy Storage Specification

MODEL	InfiniSolar E 5.5KW
MAXIMUM PV INPUT POWER	6500W
RATED OUTPUT POWER	5500W
MAXIMUM CHARGING POWER	2880 W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 13 A
GRID OUTPUT (AC)	
Nominal Output Voltage	202/208/220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC*
Max. Output Current	23.9A*
Power Factor	> 0.99
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	96%
European Efficiency@ Vnominal	95%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	170 -280 VAC
Maximum AC Input Current	40 A
PV INPUT (DC)	
Maximum DC Voltage	500 VDC
MPP Voltage Range	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 13 A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	202/208/220/230/240 VAC
Output Waveform	Pure sinewave
Efficiency (DC to AC)	93%
HYBRID OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 13 A
GRID INPUT	
Nominal Output Voltage	202/208/220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC*
Max. Output Current	23.9A*
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	170 -280 VAC
Maximum AC Input Current	40A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	202/208/220/230/240 VAC
Efficiency (DC to AC)	93%
BATTERY & CHARGER	
Nominal DC Voltage	48 VDC
Maximum Solar Charge Current	60 A
GENERAL	
PHYSICAL	
Dimension, D x W x H (mm)	110 x 450 x 445
Net Weight (kgs)	16
INTERFACE	
External Safety Box (Optional)	RS-232/USB
Communication ports	Optional SNMP, Modbus and AS-400 cards
ENVIRONMENT	
Humidity	0 ~ 90% RH (Non-condensing)
Operating Temperature	0 to 40°C
Altitude	0 ~ 1000 m**

Product specifications are subject to change without further notice.



VDE-AR-N 4105
VDE 0126-1-1

AS4777 , AS/NZS3100, NRS-097-2-1
G83/2, G59

Infini VII WP



- Pure sine wave output
- IP65 waterproof and dustproof makes the inverter available for various working conditions.
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- Reserved communication port for BMS (RS485)
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Monitoring software for real-time status display and control
- Parallel operation up to 9 units

ON-GRID INVERTER WITH ENERGY STORAGE

Infini VII WP On-Grid Inverter with Energy Storage Selection Guide

MODEL	Infini VII WP 2KW	Infini VII WP 3KW	Infini VII WP 5KW	Infini VII WP 6KW
PHASE	1-phase in / 1-phase out			
MAXIMUM PV INPUT POWER	3000 W	4500 W	6000 W	6500 W
RATED OUTPUT POWER	2000VA/2000W	3000VA/3000W	5000VA/5000W	6000VA/6000W
MAXIMUM CHARGING POWER	2000 W	3000 W	4000 W	6000 W
GRID-TIE OPERATION				
PV INPUT (DC)				
Maximum DC Voltage	400 VDC	500 VDC	500 VDC	550 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC			
MPP Voltage Range	120 VDC ~ 400 VDC	120 VDC ~ 450 VDC	120 VDC ~ 450 VDC	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 13A	1 / 18A	1 / 27A	1 / 27A
GRID OUTPUT (AC)				
Nominal Output Voltage	220/230/240 VAC			
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)			
Nominal Output Current	8.7A	13A	21.7A	26A
Power Factor	> 0.99			
EFFICIENCY				
Maximum Conversion Efficiency (DC/AC)	95%		96%	
OFF-GRID OPERATION				
AC INPUT				
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC			
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC			
Frequency Range	50 Hz/60 Hz (Auto sensing)			
Maximum AC Input Current	20 A	30 A	40 A	40 A
PV INPUT (DC)				
Maximum DC Voltage	400 VDC	500 VDC	500 VDC	550 VDC
MPP Voltage Range	120 VDC ~ 400 VDC	120 VDC ~ 450 VDC	120 VDC ~ 450 VDC	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 13A	1 / 18A	1 / 27A	1 / 27A
BATTERY MODE OUTPUT (AC)				
Nominal Output Voltage	220/230/240 VAC			
Output Waveform	Pure sine wave			
Efficiency (DC to AC)	93%			
HYBRID OPERATION				
PV INPUT (DC)				
Maximum DC Voltage	400 VDC	500 VDC	500 VDC	550 VDC
Start-up Voltage / Initial Feeding Voltage	120 VDC / 150 VDC			
MPP Voltage Range	120 VDC ~ 400 VDC	120 VDC ~ 450 VDC	120 VDC ~ 450 VDC	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 13A	1 / 18A	1 / 27A	1 / 27A
GRID OUTPUT (AC)				
Nominal Output Voltage	220/230/240 VAC			
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)			
Nominal Output Current	8.7A	13A	21.7A	26A
AC INPUT				
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC			
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC			
Maximum AC Input Current	20 A	30 A	40 A	40 A
BATTERY MODE OUTPUT (AC)				
Nominal Output Voltage	220/230/240 VAC			
Efficiency (DC to AC)	93%			
BATTERY & CHARGER				
Nominal DC Voltage	48 VDC			
Maximum Solar Charging Current	40 A	60 A	100 A	120 A
Maximum AC Charging Current	40 A	60 A	100 A	120 A
Maximum Charging Current	40 A	60 A	100 A	120 A
GENERAL				
PHYSICAL				
Dimension, D x W x H (mm)	192 x 360 x 665			
Net Weight (kgs)	22.5			
INTERFACE				
Parallel Function	Yes, 9 units			
Communication Port	USB or RS-232 / Dry Contact/RS485			
ENVIRONMENT				
Humidity	0 ~ 95% RH (No condensing)			
Operating Temperature	-25°C to 50°C			

Product specifications are subject to change without further notice.

Infini V IV WP



- Pure sine wave output
- IP65 waterproof and dustproof makes the inverter available for various working conditions
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- Built-in communication port for BMS (RS485), Wi-Fi
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Optional dual outputs for smart load management (check sales)
- Parallel operation up to 9 units

Infini V IV WP On-Grid Inverter with Energy Storage Selection Guide

MODEL	Infini V IV WP 3KW	Infini V IV WP 5KW	Infini V IV WP 6KW
PHASE		1-phase in / 1-phase out	
MAXIMUM PV INPUT POWER	3000 W	6000 W	6500 W
RATED OUTPUT POWER	3000VA/3000W	5000VA/5000W	6000VA/6000W
MAXIMUM CHARGING POWER	3000 W	5000 W	6000 W
GRID-TIE OPERATION			
PV INPUT (DC)			
Maximum DC Voltage	500 VDC	500 VDC	550 VDC
Start-up Voltage / Initial Feeding Voltage		120VDC / 150 VDC	
MPP Voltage Range	120 VDC ~ 450 VDC	120 VDC ~ 450 VDC	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 18A	1 / 27A	1 / 30A
GRID OUTPUT (AC)			
Nominal Output Voltage		220/230/240 VAC	
Output Voltage Range		184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)	
Nominal Output Current	13A	21.7A	26A
Power Factor		> 0.99	
EFFICIENCY			
Maximum Conversion Efficiency (DC/AC)		95%	
OFF-GRID OPERATION			
AC INPUT			
AC Start-up Voltage / Auto Restart Voltage		120 - 140 VAC / 180 VAC	
Acceptable Input Voltage Range		90 - 280 VAC or 170 - 280 VAC	
Frequency Range		50 Hz/60 Hz (Auto sensing)	
Maximum AC Input Current	30 A	40 A	40 A
PV INPUT (DC)			
Maximum DC Voltage	500 VDC	500 VDC	550 VDC
MPP Voltage Range	120VDC / 150 VDC	120VDC / 150 VDC	120VDC / 150 VDC
Number of MPP Trackers / Maximum Input Current	1 / 18A	1 / 27A	1 / 30A
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage		220/230/240 VAC	
Output Waveform		Pure sine wave	
Efficiency (DC to AC)		93%	
HYBRID OPERATION			
PV INPUT (DC)			
Maximum DC Voltage	500 VDC	500 VDC	550 VDC
Start-up Voltage / Initial Feeding Voltage		120 VDC / 150 VDC	
MPP Voltage Range	120 VDC ~ 450 VDC	120 VDC ~ 450 VDC	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 18A	1 / 27A	1 / 30A
GRID OUTPUT (AC)			
Nominal Output Voltage		220/230/240 VAC	
Output Voltage Range		184 - 264.5 VAC or 195.5 - 253 VAC or 184 - 264.4 VAC (Selectable)	
Nominal Output Current	13A	21.7A	26A
AC INPUT			
AC Start-up Voltage / Auto Restart Voltage		120 - 140 VAC / 180 VAC	
Acceptable Input Voltage Range		90 - 280 VAC or 170 - 280 VAC	
Maximum AC Input Current	30A	40 A	40 A
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage		220/230/240 VAC	
Efficiency (DC to AC)	93%	93%	93%
BATTERY & CHARGER			
Nominal DC Voltage		48 VDC	
Maximum Solar Charging Current	60 A	100 A	120 A
Maximum AC Charging Current	60 A	100 A	120 A
Maximum Charging Current	60 A	100 A	120 A
GENERAL			
PHYSICAL			
Dimension, D x W x H (mm)		192 x 360 x 665	
Net Weight (kgs)	22.5	22.5	22.5
INTERFACE			
Parallel Function		Yes, 9 units	
Communication Port		USB or RS-232/Dry Contact/RS485/Wi-Fi	
ENVIRONMENT			
Humidity		0 ~ 95% RH (No condensing)	
IP degree		IP65	
Operating Temperature		-25°C to 50°C	

Product specifications are subject to change without further notice.

InfiniSolar WP 10kW-15kW



- IP65 waterproof and dustproof makes the inverter available for various working conditions.
- Built-in WiFi for mobile monitoring (App is available)
- 150% unbalanced load support
- Optional dual outputs for smart load management (check sales)
- Built-in AC coupled function
- User-adjustable charging current and voltage
- Reserved communication port for BMS (RS485)
- Parallel operation up to 6 units

ON-GRID INVERTER WITH ENERGY STORAGE

InfiniSolar WP Three Phase On-Grid Inverter with Energy Storage Selection Guide

MODEL	10KW	12KW	15KW
MAXIMUM PV INPUT POWER	14500W	16000W	16000 W
RATED OUTPUT POWER	10000 W	12000 W	15000 W
MAXIMUM CHARGING POWER	10000 W	12000 W	15000 W
GRID-TIE OPERATION			
PV INPUT (DC)			
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 1000 VDC	720 VDC / 1000 VDC	720 VDC / 1000 VDC
Start-up Voltage / Initial Feeding Voltage		320 VDC / 350 VDC	
MPP Voltage Range	350 VDC ~ 950 VDC	350 VDC ~ 950 VDC	350 VDC ~ 950 VDC
Number of MPP Trackers / Maximum Input Current	2 / A: 26A, B: 13A	2 / A: 26A, B: 26A	2 / A: 26A, B: 26A
Number of Strings Per MPP Tracker	A: 2, B: 1	A: 2, B: 2	A: 2, B: 2
GRID OUTPUT (AC)			
Nominal Output Voltage		230 VAC (P-N) / 400 VAC (P-P)	
Output Voltage Range		184 - 265 VAC per phase	
Nominal Output Current	14.5 A per phase	17.4 A per phase	21.7 A per phase
Power Factor range		0.9 lag ~ 0.9 lead	
EFFICIENCY			
Maximum Conversion Efficiency (DC/AC)		>96%	
European Efficiency@ Vnominal		>95%	
OFF-GRID OPERATION			
AC INPUT			
AC Start-up Voltage / Auto Restart Voltage		120 - 140 VAC / 180 VAC	
Acceptable Input Voltage Range		170 - 290 VAC per phase	
Maximum AC Input Current	40 A	40 A	40 A
PV INPUT (DC)			
Maximum DC Power	14500W	16000W	22500W
Maximum DC Voltage	1000 VDC	1000 VDC	1000 VDC
MPP Voltage Range	350 VDC ~ 950 VDC	350 VDC ~ 950 VDC	350 VDC ~ 950 VDC
Number of MPP Trackers / Maximum Input Current	2 / A: 26A, B: 13A	2 / A: 26A, B: 26A	2 / A: 26A, B: 26A
Number of Strings Per MPP Tracker	A: 2, B: 1	A: 2, B: 2	A: 2, B: 2
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage		230 VAC (P-N) / 400 VAC (P-P)	
Output Waveform		Pure sine wave	
Efficiency (DC to AC)	91%	91%	91%
HYBRID OPERATION			
PV INPUT (DC)			
Maximum DC Voltage	1000 VDC	1000 VDC	1000 VDC
Start-up Voltage / Initial Feeding Voltage		320 VDC / 350 VDC	
MPP Voltage Range	350 VDC ~ 850 VDC	350 VDC ~ 850 VDC	350 VDC ~ 850 VDC
Number of MPP Trackers / Maximum Input Current	2 / A: 26A, B: 13A	2 / A: 26A, B: 26A	2 / A: 26A, B: 26A
Number of Strings Per MPP Tracker	A: 2, B: 1	A: 2, B: 2	A: 2, B: 2
GRID OUTPUT (AC)			
Nominal Output Voltage		230 VAC (P-N) / 400 VAC (P-P)	
Output Voltage Range		184 - 265 VAC per phase	
Nominal Output Current	14.5 A per phase	17.4 A per phase	21.7 A per phase
AC INPUT			
AC Start-up Voltage / Auto Restart Voltage		120 - 140 VAC / 180 VAC	
Acceptable Input Voltage Range		170 - 290 VAC per phase	
Maximum AC Input Current	40 A	40 A	40 A
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage		230 VAC (P-N) / 400 VAC (P-P)	
Efficiency (DC to AC)	91%	91%	91%
BATTERY & CHARGER			
Battery Voltage Range	40 ~ 62 VDC	40 ~ 62 VDC	40 ~ 62 VDC
Maximum Charging Current	220 A	250 A	300 A
GENERAL			
PHYSICAL			
Dimension, D x W x H (mm)	247 x 500 x 650	255 x 660 x 750	
Net Weight (kgs)	42	70	73
INTERFACE			
Communication Port		RS-232, RS-485, USB, CAN and Wi-Fi	
Intelligent Slot		Optional for SNMP and Modbus cards	
ENVIRONMENT			
Humidity		0 ~ 100% RH (Non-condensing)	
Operating Temperature		-25 to 60°C, > 45°C power derating	
Altitude		0 ~ 1000 m**	

*These figures are based on VDE-4105 standard. All figures may vary depending on different AC voltage and country requirements.

** Power derating 1% every 100 m when altitude is over 1000m
Product specifications are subject to change without further notice.

InfiniSolar WP TWIN 12kW-15kW

ON-GRID INVERTER WITH ENERGY STORAGE



- IP65 waterproof and dustproof makes the inverter available for various working conditions.
- Built-in WiFi for mobile monitoring (App is available)
- 150% unbalanced load support
- Maximum PV input current 27A
- Dual outputs for smart load management
- User-adjustable charging current
- Reserved communication port for BMS (RS485)
- Parallel operation up to 6 units

InfiniSolar WP TWIN Three Phase On-Grid Inverter with Energy Storage Selection Guide

MODEL	InfiniSolar WP TWIN 12KW	InfiniSolar WP TWIN 15KW
MAXIMUM PV INPUT POWER	16000 W	22500 W
RATED OUTPUT POWER	12000 W	15000 W
MAXIMUM CHARGING POWER	12000 W	15000 W
GRID-TIE OPERATION		
PV INPUT (DC)		
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 1000 VDC	720 VDC / 1000 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC	
MPP Voltage Range	350 VDC ~ 950 VDC	350 VDC ~ 950 VDC
Number of MPP Trackers / Maximum Input Current	2 / A: 27A, B: 27A	2 / A: 27A, B: 27A
Number of Strings Per MPP Tracker	A: 2, B: 2	A: 2, B: 2
GRID OUTPUT (AC)		
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	
Output Voltage Range	184 - 265 VAC per phase	
Nominal Output Current	17.4 A per phase	21.7 A per phase
Power Factor range	0.9 lag ~ 0.9 lead	
EFFICIENCY		
Maximum Conversion Efficiency (DC/AC)	>96%	
European Efficiency@ Vnominal	>95%	
OFF-GRID OPERATION		
AC INPUT		
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC	
Acceptable Input Voltage Range	170 - 290 VAC per phase	
Maximum AC Input Current	40 A	40 A
PV INPUT (DC)		
Maximum DC Power	16000 W	22500 W
Maximum DC Voltage	1000 VDC	1000 VDC
MPP Voltage Range	350 VDC ~ 950 VDC	350 VDC ~ 950 VDC
Number of MPP Trackers / Maximum Input Current	2 / A: 27A, B: 27A	2 / A: 27A, B: 27A
Number of Strings Per MPP Tracker	A: 2, B: 2	A: 2, B: 2
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	
Output Waveform	Pure sine wave	
Efficiency (DC to AC)	91%	91%
HYBRID OPERATION		
PV INPUT (DC)		
Maximum DC Voltage	1000 VDC	1000 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC	
MPP Voltage Range	350 VDC ~ 950 VDC	350 VDC ~ 950 VDC
Number of MPP Trackers / Maximum Input Current	2 / A: 27A, B: 27A	2 / A: 27A, B: 27A
Number of Strings Per MPP Tracker	A: 2, B: 2	A: 2, B: 2
GRID OUTPUT (AC)		
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	
Output Voltage Range	184 - 265 VAC per phase	
Nominal Output Current	17.4 A per phase	21.7 A per phase
AC INPUT		
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC	
Acceptable Input Voltage Range	170 - 290 VAC per phase	
Maximum AC Input Current	40 A	40 A
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	
Efficiency (DC to AC)	91%	91%
BATTERY & CHARGER		
Battery Voltage Range	40 ~ 62 VDC	40 ~ 62 VDC
Maximum Charging Current	250 A	300 A
GENERAL		
PHYSICAL		
Dimension, D x W x H (mm)	255 x 660 x 750	
Net Weight (kgs)	75	78
INTERFACE		
Communication Port	RS-232, RS-485, USB, CAN and Wi-Fi	
Intelligent Slot	Optional for SNMP and Modbus cards	
ENVIRONMENT		
Humidity	0 ~ 100% RH (Non-condensing)	
Operating Temperature	-25 to 60°C, > 45°C power derating	
Altitude	0 ~ 1000 m**	

*These figures are based on VDE-4105 standard. All figures may vary depending on different AC voltage and country requirements.
 ** Power derating 1% every 100 m when altitude is over 1000m
 Product specifications are subject to change without further notice.

InfiniSolar WP 30kW



- IP65 waterproof and dustproof makes the inverter available for various working conditions.
- 150% unbalanced load support
- Dual outputs for smart load management
- Built-in AC coupled function
- Built-in WiFi for mobile monitoring (App is available)
- User-adjustable charging current up to 50A
- Wide battery input range
- Built-in communication port for BMS (RS485)
- Parallel operation up to 4 units

InfiniSolar WP Three Phase On-Grid Inverter with Energy Storage Specification

MODEL	InfiniSolar WP 30KW
MAXIMUM PV INPUT POWER	40000 W
RATED OUTPUT POWER	30000 W
MAXIMUM CHARGING POWER	30000 W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 1000 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	350 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current	3 / A: 27A, B: 27A, C: 27A
Number of Strings Per MPP Tracker	A: 2, B: 2, C: 2
GRID/UTILITY OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 265 VAC per phase
Nominal Output Current	43.5 A per phase
Power Factor	0.9 lag to 0.9 lead
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	96.5%
European Efficiency@ Vnominal	96%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	50 A
PV INPUT (DC)	
Maximum DC Voltage	1000 VDC
MPP Voltage Range	350 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current	3 / A: 27A, B: 27A, C: 27A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Waveform	Pure sine wave
Efficiency (DC to AC)	96%
HYBRID OPERATION	
PV INPUT (DC)	
Maximum DC Voltage	1000 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	350 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current	3 / A: 27A, B: 27A, C: 27A
GRID OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 265 VAC per phase
Nominal Output Current	43.5 A per phase
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	50 A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC to AC)	96%
BATTERY & CHARGER	
Battery Voltage Range	600 ~ 1000 VDC
Maximum Charging Current	50 A
GENERAL	
PHYSICAL	
Dimension, D x W x H (mm)	255 x 660 x 750
Net Weight (kgs)	73
INTERFACE	
Communication Port	RS-232, USB, DRY CONTACT, RS-485 and Wi-Fi
Intelligent Slot	Optional SNMP, MODBUS and GPRS
ENVIRONMENT	
Humidity	0 ~ 100% RH
Operating Temperature	-25°C to 60°C (>45°C De-rating)
Altitude	0 ~ 1000 m**

*These figures are based on VDE-4105 standard. All figures may vary depending on different AC voltage and country requirements.

** Power derating 1% every 100 m when altitude is over 1000m

Product specifications are subject to change without further notice.

InfiniSolar TX / TX-PA



InfiniSolar TX-PA 30KW



InfiniSolar TX 20KW

- Pure sine wave output
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- True galvanic isolation transformer design
- User-adjustable charging current
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Built-in timer for various mode of on/off operation
- Multiple communication for USB, RS-232, Modbus and SNMP
- Monitoring software for real-time status display and control
- Parallel operation up to 4 units only for 30KW

InfiniSolar TX/TX-PA 3 Phase Transformer Type Hybrid Inverter Specification

MODEL	InfiniSolar TX 20KW	InfiniSolar TX-PA 30KW
MAXIMUM PV INPUT POWER	30KW	45KW
RATED OUTPUT POWER	20KW	30KW
MAXIMUM CHARGING POWER	20KW	30KW
GRID-TIE OPERATION		
PV INPUT (DC)		
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 950 VDC	
Start-up Voltage / Initial Feeding Voltage	500 VDC / 550 VDC	
MPP Voltage Range	460 VDC ~ 900 VDC	
Full power MPP Voltage Range	625 VDC ~ 900 VDC	
Number of MPP Trackers / Maximum Input Current	1 / 48A	1 / 72A
GRID OUTPUT (AC)		
Nominal Output Voltage	230 VAC* (P-N) / 400 VAC (P-P)	
Output Voltage Range	184 - 265 VAC per phase	195.5 - 253 VAC per phase
Output Frequency Range	49 ~ 51 Hz or 59.3 ~ 60.5 Hz	
Nominal Output Current	29.0 A per phase	43.5 A per phase
Power Factor	> 0.99	1
EFFICIENCY		
Maximum Conversion Efficiency (DC/AC)	91%	95%
OFF-GRID OPERATION		
AC INPUT		
AC Start-up Voltage/Auto Restart Voltage	120 - 140 VAC per phase / 180 VAC per phase	150 - 170 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase	
Maximum AC Input Current	40 A per phase	43.5 A per phase
PV INPUT (DC)		
Maximum DC Power / Maximum DC Voltage	30KW / 950 VDC	45KW / 950 VDC
MPP Voltage Range	550 VDC ~ 900 VDC	460 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current	1 / 48 A	1 / 72 A
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	
Output Waveform	Pure Sinewave	
Efficiency (DC to AC)	>91%	
HYBRID OPERATION		
PV INPUT (DC)		
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 950 VDC	
Start-up Voltage / Initial Feeding Voltage	500 VDC / 550 VDC	
MPP Voltage Range	550 VDC ~ 900 VDC	460 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current	1 / 48 A	1 / 72 A
GRID OUTPUT (AC)		
Nominal Output Voltage	230 VAC* (P-N) / 400 VAC (P-P)	
Output Voltage Range	184 - 265 VAC per phase	195.5 - 253 VAC per phase
Output Frequency Range	47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz	49 ~ 51 Hz or 59.3 ~ 60.5 Hz
Nominal Output Current	29 A per phase	43.5 A per phase
Power Factor	> 0.99	1
AC INPUT		
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC per phase / 180 VAC per phase	150 - 170 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase	
Maximum AC Input Current	40 A per phase	43.5 A per phase
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	
Efficiency (DC to AC)	>91%	
BATTERY & CHARGER		
Nominal Battery Voltage/Charging Voltage Range	384 VDC	384 VDC / 384 VDC ~ 480 VDC
Maximum Charging Current	50A	80A
GENERAL		
PHYSICAL		
Dimension, D x W x H (mm)	559 x 320 x 909	430 x 715 x 1021
Net Weight (kgs)	120	223
INTERFACE		
Communication Port	RS-232/USB	
Intelligent Slot	Optional SNMP, GPRS, WIFI, Modbus cards available	
ENVIRONMENT		
Humidity	0 ~ 90% RH (Non-Condensing)	
Operating Temperature	-10 to 55°C	
Altitude	0 ~ 1000 m**	

*These figures are based on VDE-4105 standard. All figures may vary depending on different AC voltage and country requirements.

** Power derating 1% every 100 m when altitude is over 1000m

Product specifications are subject to change without further notice.

Axpert V Value Off-Grid Inverter



- Pure sine wave solar inverter
- Selectable high power charging current
- Wide DC input range
- Selectable input voltage range for home appliances and personal computers
- Configurable AC/Solar input priority via LCD setting
- Compatible to AC mains or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function

Axpert V Value Off-Grid Inverter Selection Guide

MODEL	Axpert VP 3000 Value	Axpert VM 3000 Value
RATED POWER	3000VA / 2400W	
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC \pm 5%	
Surge Power	6000VA	
Efficiency (Peak)	90% ~ 93%	
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
BATTERY		
Battery Voltage	24 VDC	
Floating Charge Voltage	27 VDC	
Overcharge Protection	31 VDC	
SOLAR CHARGER & AC CHARGER		
Solar Charger type	PWM	MPPT
Maximum PV Array Open Circuit Voltage	80 VDC	102 VDC
Maximum PV Array Power	1200 W	1000 W
MPP Range @ Operating Voltage	N/A	30~80 VDC
Maximum Solar Charge Current	50 A	40 A
Maximum AC Charge Current	25 A	25 A
Maximum Charge Current	70 A	60 A
PHYSICAL		
Dimension, D x W x H (mm)	88 x 257.6 x 320	
Net Weight (kgs)	5.4	5.7
Communication Interface	USB/RS232	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	

Product specifications are subject to change without further notice

Axpert V Off-Grid Inverter



Axpert VM 1000-12 / Axpert VM 2000-24 Axpert VP 1000-12 / Axpert VP 2000-24 Axpert VP3000-24 / Axpert VM3000-24 Axpert VM 3000-24 Plus / Axpert VP 5000-48 / Axpert VM 5000-48

- Pure sine wave solar inverter
- Output power factor 1
- Selectable high power charging current
- Wide DC input range
- Selectable input voltage range for home appliances and personal computers
- Configurable AC/Solar input priority via LCD setting
- Compatible to AC mains or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Battery equalization for optimized battery performance and lifecycle
- Cold start function
- Optional anti-dust kit

Axpert V Off-Grid Inverter Selection Guide

MODEL	Axpert VP 1000-12	Axpert VM 1000-12	Axpert VP 2000-24	Axpert VM 2000-24	Axpert VP 3000-24	Axpert VM 3000-24	Axpert VM 3000-24 Plus	Axpert VP 5000-48	Axpert VM 5000-48	
RATED POWER	1000VA/1000W		2000VA/2000W		3000VA / 3000W			5000VA / 5000W		
INPUT										
Voltage	230 VAC									
Selectable Voltage Range	170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)									
Frequency Range	50 Hz/60 Hz (Auto sensing)									
OUTPUT										
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%									
Surge Power	2000VA		4000VA		6000VA			10000VA		
Efficiency (Peak)	90% ~ 93%									
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)									
Waveform	Pure sine wave									
BATTERY										
Battery Voltage	12 VDC		24 VDC				48 VDC			
Floating Charge Voltage	13.5 VDC		27 VDC				54 VDC			
Overcharge Protection	16 VDC		31 VDC		33 VDC			63 VDC		
SOLAR CHARGER & AC CHARGER										
Solar Charger type	PWM	MPPT	PWM	MPPT	PWM	MPPT		PWM	MPPT	
Maximum PV Array Open Circuit Voltage	55 VDC	102 VDC	80 VDC	102 VDC	80 VDC	102 VDC	145 VDC	105 VDC	145 VDC	
Maximum PV Array Power	600 W	500 W	1200 W	1000 W	1200 W	1000 W	1500 W	2400 W	3000 W	
MPP Range @ Operating Voltage	N/A	17 ~ 80 VDC	N/A	30 ~ 80 VDC	N/A	30~80 VDC	30~115 VDC	N/A	60 ~ 115 VDC	
Maximum Solar Charge Current	50 A	40 A	50 A	40 A	50 A	40 A	60 A	50 A	60 A	
Maximum AC Charge Current	20 A	20 A	20 A	20 A	25A	25A	60 A	60 A	60 A	
Maximum Charge Current	50 A	60 A	50 A	60 A	70 A	60 A	120 A	110 A	120 A	
PHYSICAL										
Dimension, D x W x H (mm)	88 x 225 x 320				100 x 285 x 334			100 x 300 x 440	100 x 300 x 440	
Net Weight (kgs)	4.4	4.4	5	5	6.3	6.5	9.5	8.5	9.7	
Communication Interface	USB/RS232									
ENVIRONMENT										
Humidity	5% to 95% Relative Humidity (Non-condensing)									
Operating Temperature	-10°C to 50°C									
Storage Temperature	-15°C to 60°C									

Product specifications are subject to change without further notice.

Axpert VM II Off-Grid Inverter

Operation without battery



- Pure sine wave solar inverter
- Output power factor 1
- High PV input voltage range
- Battery independent design
- Built-in 100A MPPT solar charger
- Battery equalization function to optimize battery performance and extend lifecycle
- Built-in anti-dust kit for harsh environment

Axpert VM II Off-Grid Inverter Selection Guide

MODEL	Axpert VM II 1200-12	Axpert VM II 2500-24	Axpert VM II 3000-24	Axpert VM II 5000-48
RATED POWER	1200VA/1200W	2500VA/2500W	3000VA / 3000W	5000VA / 5000W
INPUT				
Voltage	230 VAC			
Selectable Voltage Range	170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)			
Frequency Range	50 Hz/60 Hz (Auto sensing)			
OUTPUT				
AC Voltage Regulation (Batt. Mode)	230VAC \pm 5%			
Surge Power	2400VA	5000VA	6000VA	10000VA
Efficiency (Peak)	93%			
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)			
Waveform	Pure sine wave			
BATTERY				
Battery Voltage	12 VDC	24 VDC	24 VDC	48 VDC
Floating Charge Voltage	13.5 VDC	27 VDC	27 VDC	54 VDC
Overcharge Protection	16 VDC	32 VDC	33 VDC	63 VDC
SOLAR CHARGER & AC CHARGER				
Maximum PV Array Open Circuit Voltage	350 VDC	450 VDC	500 VDC	500 VDC
Maximum PV Array Power	2000W	3000W	4000 W	5000 W
MPP Range @ Operating Voltage	60-300 VDC	60-400 VDC	120~450 VDC	120~450 VDC
Maximum Solar Charge Current	80 A		100 A	100 A
Maximum AC Charge Current	80 A		100 A	100 A
Maximum Charge Current	80 A		100 A	100 A
PHYSICAL				
Dimension, D x W x H (mm)	90 x 288 x 357		100 x 300 x 440	
Net Weight (kgs)	6.5	6.5	9	10
Communication Interface	RS232		USB/RS232 (optional USB/Dry contact)	
ENVIRONMENT				
Humidity	5% to 95% Relative Humidity (Non-condensing)			
Operating Temperature	-10°C to 50°C			
Storage Temperature	-15°C to 60°C			

Product specifications are subject to change without further notice.

Axpert VM II TWIN Off-Grid Inverter



- Dual outputs, for smart load management
- Maximum PV input current increases to 27A
- Wide PV input voltage range 60VDC ~ 450VDC
- Battery independent design
- Built-in 100A MPPT solar charger
- Battery equalization function to optimize battery performance and extend lifecycle

Axpert VM II TWIN Off-Grid Inverter Selection Guide

MODEL	Axpert VM II TWIN 3.6K	Axpert VM II TWIN 5.6K
RATED POWER	3600VA/3600W	5600VA/5600W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC \pm 10%	
Surge Power	7200VA	11200VA
Efficiency (Peak)	90% ~ 93%	
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
BATTERY		
Battery Voltage	24 VDC	48 VDC
Floating Charge Voltage	27 VDC	54 VDC
Overcharge Protection	32 VDC	63 VDC
SOLAR CHARGER & AC CHARGER		
Solar Charger type	MPPT	
Maximum PV Array Open Circuit Voltage	500 VDC	
Maximum PV Array Power	5000W	6000W
Maximum PV Input Current	27A	27A
MPP Range @ Operating Voltage	60-450 VDC	60-450 VDC
Maximum Solar Charge Current	100A	100A
Maximum AC Charge Current	100A	100A
Maximum Charge Current	100A	100A
PHYSICAL		
Dimension, D x W x H (mm)	107 x 323 x 420	
Net Weight (kgs)	9	
Communication Interface	USB/RS-232	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	

Product specifications are subject to change without further notice

Axpert VM III 1.5KW/3KW/5KW Off-Grid Inverter



- Detachable LCD control module with various communications
- Built-in Bluetooth for mobile monitoring (Android App is available)
- Supports USB On-the-Go function
- Reserved communication port (RS485, CAN-BUS or RS232) for BMS
- Battery independent design
- Battery equalization extends lifecycle
- User-friendly LCD operation
- Replaceable fan design for ease of maintenance

Axpert VM III Off-Grid Inverter Selection Guide

MODEL	Axpert VM III-1500-24	Axpert VM III-3000-24	Axpert VM III 5000-48
RATED POWER	1500VA/1500W	3000VA/3000W	5000VA/5000W
INPUT			
Voltage	230 VAC		
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)		
Frequency Range	50 Hz/60 Hz (Auto sensing)		
OUTPUT			
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%		
Surge Power	3000VA	6000VA	10000VA
Efficiency (Peak)	90% ~ 93%		
Transfer Time	15 ms (For Personal Computers) 20 ms (For Home Appliances)		
Waveform	Pure sine wave		
BATTERY			
Battery Voltage	24 VDC		48 VDC
Floating Charge Voltage	27 VDC		54 VDC
Overcharge Protection	33 VDC		63 VDC
SOLAR CHARGER & AC CHARGER			
Solar Charger type	MPPT		
Maximum PV Array Power	2000W	4000W	5000W
MPP Range @ Operating Voltage	120 ~ 380 VDC	120 ~ 450 VDC	
Maximum PV Array Open Circuit Voltage	400 VDC	500 VDC	
Maximum Solar Charge Current	60A	100A	
Maximum AC Charge Current	40A	100A	
Maximum Charge Current	60A	100A	
PHYSICAL			
Dimension, D x W x H (mm)	100 x 280 x 390	115 x 300 x 400	
Net Weight (kgs)	8.5	9	10
Communication Interface	USB/RS232/RS485/Bluetooth/Dry-contact		
OPERATING ENVIRONMENT			
Humidity	5% to 95% Relative Humidity (Non-condensing)		
Operating Temperature	-10°C to 50°C		
Storage Temperature	-15°C to 60°C		

Product specifications are subject to change without further notice.

Axpert VM III 4KW/6KW Off-Grid Inverter



- Detachable LCD control module with various communications
- Built-in WiFi for mobile monitoring (App is available)
- Supports USB On-the-Go function
- Reserved communication port (RS485, CAN-BUS or RS232) for BMS
- Battery independent design
- Battery equalization extends lifecycle
- User-friendly LCD operation
- Replaceable fan design for ease of maintenance

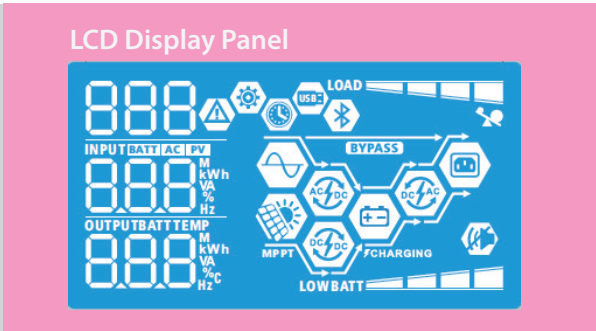
Axpert VM III Off-Grid Inverter Selection Guide

MODEL	Axpert VM III-4000-24	Axpert VM III-6000-48
RATED POWER	4000VA/4000W	6000VA/6000W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC \pm 10%	
Surge Power	8000VA	12000VA
Efficiency (Peak)	90% ~ 93%	
Transfer Time	15 ms (For Personal Computers) 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
BATTERY		
Battery Voltage	24 VDC	48 VDC
Floating Charge Voltage	27 VDC	54 VDC
Overcharge Protection	33 VDC	63 VDC
SOLAR CHARGER & AC CHARGER		
Solar Charger type	MPPT	
Maximum PV Array Power	5000W	6000W
MPP Range @ Operating Voltage	120 ~ 450 VDC	120 ~ 450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC	500 VDC
Maximum Solar Charge Current	120A	120A
Maximum AC Charge Current	100A	100A
Maximum Charge Current	120A	120A
PHYSICAL		
Dimension, D x W x H (mm)	115 x 300 x 400	
Net Weight (kgs)	9	10
Communication Interface	USB/RS232/RS485/WiFi/Dry-contact	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	

Product specifications are subject to change without further notice.

Axpert VM III TWIN Off-Grid Inverter

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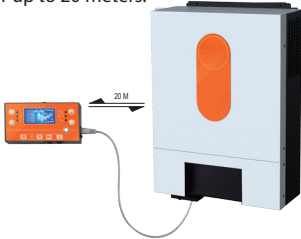


- Dual outputs for smart load management**
 There are two outputs available. The second output can be scheduled on/off, setting cut-off voltage or SOC and discharging time via LCD setting. It facilitates users smart load control.
- Maximum PV input current 27A**
 Designed with 27A PV input current, Axpert VM III TWIN is compatible to the market trend of increased Imp in solar panel.
- Wide PV input voltage range 60VDC ~ 450VDC**
 Now, Axpert VM III TWIN allows wide PV input voltage range from 60VDC to 450VDC. This features allow less solar panel required in the system and save space.

- Supports USB On-the-Go function**
 VM III TWIN series supports USB On-the-Go function to facilitate data upload/download.



- Detachable LCD control module with various communications**
 This detachable LCD control module can be turned to remote panel. Users can install the LCD panel in accessible area away from inverter up to 20 meters.

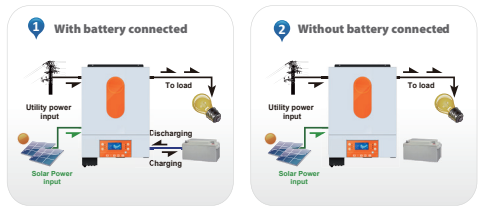


- Reserved communication port (RS-485, CAN-BUS or RS-232) for BMS**
 This third generation inverter is reserved communication port for BMS. For the detailed information, please contact sales directly.
- Battery equalization extends lifecycle**
 This inverter charger is built in battery equalization function. This function will help remove sulfation to optimize battery performance and even extend lifecycle.

- Built-in WiFi for mobile monitoring (App is available)**
 VM III TWIN series is integrated Wifi interface ready for mobile monitoring. This technology allows wireless communication up to 6~7m in an open space. Now, WatchPower App is available in google store.



- Battery independency**
 Inverter can keep supplying power to the loads from PV energy or the grid without battery connected.



- User-friendly LCD operation**
 Users can easily set up or change the charging current, output source and charger source prioritization through LCD control panel to optimize inverter performance.



- Replaceable fan design**
 VM III TWIN series is designed with replaceable fan. It will simplify the maintenance and reduce the maintenance cost.



Axpert VM III TWIN Off-Grid Inverter Selection Guide

MODEL	Axpert VM III TWIN 4K	Axpert VM III TWIN 6K
RATED POWER	4000VA/4000W	6000VA/6000W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC \pm 10%	
Surge Power	8000VA	12000VA
Efficiency (Peak)	90% ~ 93%	
Transfer Time	15 ms (For Personal Computers) 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
BATTERY		
Battery Voltage	24 VDC	48 VDC
Floating Charge Voltage	27 VDC	54 VDC
Overcharge Protection	33 VDC	63 VDC
SOLAR CHARGER & AC CHARGER		
Solar Charger type	MPPT	
Maximum PV Array Power	5000W	6000W
MPP Range @ Operating Voltage	60 ~ 450 VDC	60 ~ 450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC	500 VDC
Maximum PV Input Current	27A	
Maximum Solar Charge Current	120A	120A
Maximum AC Charge Current	100A	100A
Maximum Charge Current	120A	120A
PHYSICAL		
Dimension, D x W x H (mm)	115 x 300 x 435	
Net Weight (kgs)	9	10
Communication Interface	USB/RS232/RS485/WiFi/Dry-contact	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	

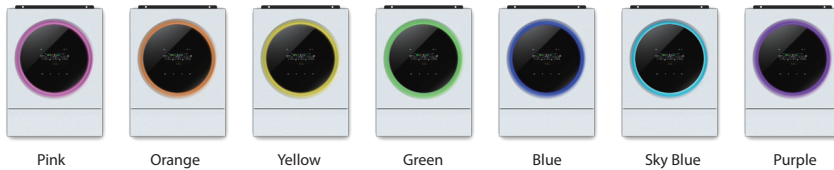
Product specifications are subject to change without further notice.

Axpert VM IV Off-Grid Inverter




- Customizable status LED ring with RGB lights
- Touchable button with 4.3" colored LCD
- Built-in Wifi for mobile monitoring (App is available)
- Supports USB On-the-Go function
- Data log events stored in the inverter
- Reserved communication port (RS485, CAN-BUS or RS232) for BMS
- Battery independent design
- Battery equalization extends lifecycle
- User-friendly LCD operation
- Enhanced charging power
- Built-in anti-dust kit

User-programmable RGB lighting for different operation mode



Three lighting effects

-  **Cycling**
Quickly scrolling with a color of your choice in a continuous circular motion
-  **Wheel**
Illuminates with twinkling lights in a color of your choice
-  **Chasing**
Radiates your selected color upward from the bottom of the ring

Axpert VM IV Off-Grid Inverter Selection Guide

MODEL	Axpert VM IV 3600-24	Axpert VM IV 5600-48
RATED POWER	3600VA/3600W	5600VA/5600W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230 VAC ± 5%	
Surge Power	7200VA	11200VA
Efficiency (Peak)	90% ~ 93%	
Transfer Time	15 ms (For Personal Computers) ; 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
BATTERY		
Battery Voltage	24 VDC	48 VDC
Floating Charge Voltage	27 VDC	54 VDC
Overcharge Protection	33 VDC	63 VDC
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	MPPT	MPPT
Maximum PV Array Power	4000W	6000 W
MPPT Range @ Operating Voltage	120 ~ 450 VDC	
Maximum PV Array Open Circuit Voltage	500 VDC	
Maximum Solar Charge Current	120 A	120 A
Maximum AC Charge Current	100 A	100 A
Maximum Charge Current	120 A	120 A
PHYSICAL		
Dimension, D x W x H (mm)	119 x 313.6 x 422.8	
Net Weight (kgs)	10.0	12.0
Communication Interface	USB/RS232/RS485/WiFi/Dry-contact	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	

Product specifications are subject to change without further notice.

Axpert VM IV TWIN Off-Grid Inverter



- Dual output for smart load management
- Maximum PV input current 27A
- Wide PV input voltage range 60VDC~450VDC
- Customizable status LED ring with RGB lights
- Touchable button with large 4.3" colored LCD
- Built-in Wifi for mobile monitoring (Android/iOS App available)
- Supports USB On-the-Go function
- Data log event stored in the inverter
- Reserved communication port (RS485, CAN-BUS or RS232) for BMS
- Battery independent design
- Battery equalization extends lifecycle
- Enhanced charging power
- Built-in anti-dust kit

Axpert VM IV TWIN Off-Grid Inverter Selection Guide

MODEL	Axpert VM IV TWIN 4K	Axpert VM IV TWIN 6K
RATED POWER	4000VA/4000W	6000VA/6000W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC \pm 10%	
Surge Power	8000VA	12000VA
Efficiency (Peak)	90% ~ 93%	
Transfer Time	15 ms (For Personal Computers) 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
BATTERY		
Battery Voltage	24 VDC	48 VDC
Floating Charge Voltage	27 VDC	54 VDC
Overcharge Protection	33 VDC	63 VDC
SOLAR CHARGER & AC CHARGER		
Solar Charger type	MPPT	
Maximum PV Array Power	5000W	6000W
MPP Range @ Operating Voltage	60 ~ 450 VDC	60 ~ 450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC	500 VDC
Maximum PV Input Current	27A	
Maximum Solar Charge Current	120A	120A
Maximum AC Charge Current	100A	100A
Maximum Charge Current	120A	120A
PHYSICAL		
Dimension, D x W x H (mm)	119 x 313.6 x 457.5	
Net Weight (kgs)	10	12
Communication Interface	USB/RS232/RS485/WiFi/Dry-contact	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	

Product specifications are subject to change without further notice.

Axpert King Off-Grid Inverter



- Zero transfer time to protect mission-critical loads such as servers and ATM.
- Detachable LCD control module with multiple communications
- Built-in Bluetooth for mobile monitoring (Android App is available)
- Supports USB On-the-Go function
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Parallel operation up to 9 units

Axpert King Off-Grid Inverter Selection Guide

MODEL	Axpert King 3K	Axpert King 5K
RATED POWER	3000VA/3000W	5000VA/5000W
PARALLEL CAPABILITY	Up to 9 units	Up to 9 units
INPUT		
Voltage	230 VAC	
Voltage Range	110-280 VAC	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation	230 VAC ± 5%	
Output THDv	≤ 3% for linear load, ≤ 8% for non-linear load	
Surge Power	6000VA for 5 sec	10000VA for 5 sec
Efficiency (Peak)	93 % at Line Mode, 90% at Battery Mode	
Transfer Time	0 ms	
Waveform	Pure sine wave	
BATTERY		
Battery Voltage	24 VDC	48 VDC
Floating Charge Voltage	27 VDC	54 VDC
Overcharge Protection	34 VDC	66 VDC
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	MPPT	MPPT
Maximum PV Array Open Circuit Voltage	145 VDC	
Maximum PV Array Power	1500 W	4000 W
MPP Range @ Operating Voltage	30 ~ 115 VDC	60~115VDC
Maximum Solar Charge Current	60 A	80 A
Maximum AC Charge Current	60 A	60 A
Maximum Charge Current	120 A	140 A
PHYSICAL		
Dimension, D x W x H (mm)	140 x 303 x 525	
Net Weight (kgs)	13.0	13.5
Communication Interface	USB/RS232/RS485/Bluetooth/Dry-contact	
ENVIRONMENT		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	0°C to 55°C	
Storage Temperature	-15°C to 60°C	

Product specifications are subject to change without further notice.

Axpert King II Off-Grid Inverter



- Zero (0ms) transfer time to protect mission-critical loads such as servers and ATMs
- High PV input voltage range
- Removable LCD control module with multiple communications
- Selectable high power charging current
- Built-in Wi-Fi for mobile monitoring (App is available)
- Configurable AC/Solar input priority via LCD setting
- Reserved communication port for BMS (RS485 or CAN-BUS)
- Parallel operation up to 9 units

Axpert King II Off-Grid Inverter Selection Guide

MODEL	Axpert KING II-5000-48	Axpert KING II-6000-48
RATED POWER	5000VA/5000W	6000VA/6000W
PARALLEL CAPABILITY	Up to 9 units	
GRID INPUT		
Voltage	230 VAC	
Voltage Range	110-280 VAC	
Frequency Range	50 Hz/60 Hz (Auto sensing) \pm 4Hz	
Power Factor	\geq 0.98 @ Nominal Voltage (100% Load)	
THDi	\leq 10%	
LOAD OUTPUT		
AC Voltage Regulation (Line&Batt. Mode)	230VAC \pm 5%	
Frequency Range (Synchronized Range)	46~54 Hz or 56~64 Hz	
Frequency Range (Batt. Mode)	50 Hz \pm 0.1 Hz or 60Hz \pm 0.1 Hz	
Harmonic Distortion	\leq 3 % THD (Linear Load); \leq 5 % THD (Non-linear Load)	
Transfer Time	AC Mode to Batt. Mode	0 ms
	Inverter to Bypass	4 ms (Typical)
Waveform	Pure sine wave	
EFFICIENCY		
Line Mode	94%	
ECO Mode	98%	
Battery Mode	92%	
BATTERY		
Battery Voltage	40~66 VDC	
Floating Charge Voltage	54 VDC	
Overcharge Protection	66 VDC	
SOLAR INPUT		
Solar Charger type	MPPT	
Maximum PV Array Power	6000 W	6000 W
MPPT Range @ Operating Voltage	120 ~ 430 VDC	120 ~ 430 VDC
Maximum PV Array Open Circuit Voltage	500 VDC	500 VDC
Maximum Solar Charge Current	100A	120A
Maximum AC Charge Current	100A	120A
PHYSICAL		
Dimension, D x W x H (mm)	140 x 295 x 468	
Net Weight (kgs)	12	
Communication Interface	RS232, USB, DRY CONTACT, WI-FI, RS485	
ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	

Product specifications are subject to change without further notice.

Axpert King II TWIN Off-Grid Inverter



- Dual outputs, for smart load management
- Maximum PV input current increases to 27A
- Zero (0ms) transfer time to protect mission-critical loads such as servers and ATMs
- High PV input voltage range
- Detachable LCD control module with multiple communications
- Selectable high power charging current
- Built-in Wi-Fi for mobile monitoring (App is available)
- Configurable AC/Solar input priority via LCD setting
- Reserved communication port for BMS (RS485 or CAN-BUS)
- USB On-the-Go function
- Parallel operation up to 9 units

AXPERT KING II TWIN OFF-GRID INVERTER

Axpert King II TWIN Off-Grid Inverter Selection Guide

MODEL	Axpert King II TWIN 5K	Axpert King II TWIN 6K	Axpert King II TWIN 6.2K
RATED POWER	5000VA/5000W	6000VA/6000W	6200VA/6200W
PARALLEL CAPABILITY	Up to 9 units		
GRID INPUT			
Voltage	230 VAC		
Voltage Range	110-280 VAC		
Frequency Range	50 Hz/60 Hz (Auto sensing) ± 4Hz		
Power Factor	≥ 0.98 @ Nominal Voltage (100% Load)		
THDi	≤ 10%		
LOAD OUTPUT			
AC Voltage Regulation (Line&Batt. Mode)	230VAC ± 5%		
Frequency Range (Synchronized Range)	46~54 Hz or 56~64 Hz		
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz		
Harmonic Distortion	≤ 3 % THD (Linear Load); ≤ 5 % THD (Non-linear Load)		
Transfer Time	AC Mode to Batt. Mode	0 ms	
	Inverter to Bypass	4 ms (Typical)	
Waveform	Pure sine wave		
EFFICIENCY			
Line Mode	94%		
ECO Mode	98%		
Battery Mode	92%		
BATTERY			
Battery Voltage	40~66 VDC		
Floating Charge Voltage	54 VDC		
Overcharge Protection	66 VDC		
SOLAR INPUT			
Solar Charger type	MPPT		
Maximum PV Array Power	6000 W		
MPPT Range @ Operating Voltage	120 ~ 430 VDC		
Maximum PV Array Open Circuit Voltage	500 VDC		
Maximum Solar Charge Current	100A	120A	120A
Maximum AC Charge Current	100A	120A	120A
PHYSICAL			
Dimension, D x W x H (mm)	140 x 295 x 468		
Net Weight (kgs)	12		
Communication Interface	RS232, USB, Dry contact, WI-FI, RS485		
ENVIRONMENT			
Humidity	5% to 95% Relative Humidity(Non-condensing)		
Operating Temperature	-10°C to 50°C		
Storage Temperature	-15°C to 60°C		

Product specifications are subject to change without further notice.

Axpert MAX Off-Grid Inverter



- Customizable status LED bar with RGB lights
- Built-in wifi for mobile monitoring (Android/iOS Apps are available)
- Supports USB On-the-Go function
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Replaceable fan design for ease of maintenance
- Battery independent design
- Configurable AC/PV output usage timer and prioritization
- Selectable high power charging current
- Selectable input voltage range for home appliances and personal computers
- Compatible to Utility Mains or generator input
- Built-in anti-dust kit
- Optional DC output for DC fan, LED bulb, router and so on
- Parallel operation up to 6 units only available for 7.2kVA



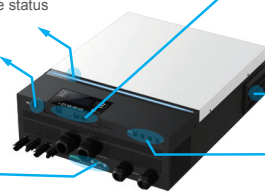
RGB light:
Different color to present output source from PV, Grid or battery and battery charge/discharge status



Communication for Remote panel



Parallel connectors:
Maximum 6 units in parallel (only for MAX-7200)



Diverse communications:
USB On-the-Go function, Dry contact and BMS communication



Anti-dust filter:
Increase product reliability in harsh environment



DC output connectors:
Connect to DC fan, LED bulb or router



Axpert MAX Off-Grid Inverter Selection Guide

MODEL	Axpert MAX 3600-24-230	Axpert MAX 7200-48-230
RATED POWER	3600VA / 3600W	7200VA / 7200W
PARALLEL CAPABILITY	NO	Yes, up to 6 units
INPUT		
Voltage	230 VAC	230 VAC
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%	230VAC ± 5%
Surge Power	7500VA	15000VA
Efficiency (Peak)	90% ~ 93%	
Transfer Time	15 ms (For Personal Computers) ; 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
No Load Power Consumption	< 45W	< 70W
Optional DC Voltage	12 VDC ± 5%, 100W	
BATTERY		
Battery Voltage	24 VDC	48 VDC
Floating Charge Voltage	27 VDC	54 VDC
Overcharge Protection	33 VDC	66 VDC
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	MPPT	
Maximum PV Array Power	4000 W	8000W (4000W x 2)
MPPT Range @ Operating Voltage	120 ~ 450 VDC	90 ~ 450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC	500 VDC
Maximum Solar Charge Current	80 A	80 A
Maximum AC Charge Current	80 A	80 A
Maximum Charge Current	80 A	80 A
PHYSICAL		
Dimension, D x W x H (mm)	147.4 x 432.5 x 553.6	
Net Weight (kgs)	14.1	18.4
Communication Interface	USB/RS232/RS485/Wifi/Dry-contact	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	
STANDARD		
Compliance Safety	CE	CE

Product specifications are subject to change without further notice.

Axpert MAX TWIN Off-Grid Inverter



- Dual outputs, for smart load management
- Maximum PV input current increases to 27A
- Wide PV input voltage range 90VDC ~ 450VDC
- Status indication with RGB lights
- Built-in Wi-Fi for mobile monitoring (Android/iOS App is available)
- Supports USB On-the-Go function
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Replaceable fan design for ease of maintenance
- Battery independent design
- Selectable high power charging current
- Compatible to Utility Mains or generator input
- Built-in anti-dust kit
- Optional DC output for DC fan, LED bulb, router and so on (only for 8K model)
- Parallel operation with 6 units

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Axpert MAX TWIN Off-Grid Inverter Selection Guide

MODEL	Axpert MAX TWIN 8K	Axpert MAX TWIN 11K
RATED POWER	8000VA/8000W	11000VA/11000W
PARALLEL CAPABILITY	YES, 6 units	
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%	230VAC ± 5%
Surge Power	16000VA	22000VA
Efficiency (Peak)	93%	
Transfer Time	10 ms (For Personal Computers), 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
Optional DC Voltage	12 VDC ± 5%, 100W	N/A
BATTERY		
Battery Voltage	48 VDC	48 VDC
Floating Charge Voltage	54 VDC	54 VDC
Overcharge Protection	66 VDC	63 VDC
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	MPPT	
Maximum PV Array Power	8000W (4000W x 2)	11000W (5500W x 2)
MPPT Range @ Operating Voltage	90 ~ 450 VDC	90 ~ 450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC	500 VDC
Maximum PV Input Current	27A x 2(MAX 40A)	
Maximum Solar Charge Current	120A	150A
Maximum AC Charge Current	120A	150A
Maximum Charge Current	120A	150A
PHYSICAL		
Dimension, D x W x H (mm)	147.4 x 432.5 x 553.6	
Net Weight (kgs)	18.4	
Communication Interface	USB/RS232/RS485/WiFi/Dry-contact	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	
STANDARD		
Compliance Safety	CE	CE

Product specifications are subject to change without further notice.

Axpert MAX II Off-Grid Inverter



- Customizable status LED bar with RGB lights
- Touchable button with large 5" colored LCD
- Built-in Wi-Fi for mobile monitoring (Android/iOS App is available)
- Supports USB On-the-Go function
- Data log events stored in the inverter
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Replaceable fan design for ease of maintenance
- Battery independent design
- Configurable AC/PV output usage timer and prioritization
- Selectable high power charging current
- Compatible to Utility Mains or generator input
- Built-in anti-dust kit
- Built-in DC output for DC fan, LED bulb, router and so on
- Parallel operation with 6 units

User-programmable RGB lighting for different operation mode



Three lighting effects

- Cycling**
Quickly scrolling with a color of your choice in a continuous circular motion
- Wheel**
Illuminates with twinkling lights in a color of your choice
- Chasing**
Radiates your selected color upward from the bottom of the ring

Axpert MAX II Off-Grid Inverter Specification

MODEL	Axpert MAX II 8000
RATED POWER	8000VA/8000W
PARALLEL CAPABILITY	YES, 6 units
INPUT	
Voltage	230 VAC
Selectable Voltage Range	170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)
Frequency Range	50 Hz/60 Hz (Auto sensing)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%
Surge Power	16000VA
Efficiency (Peak)	93%
Transfer Time	15 ms (For Personal Computers) ; 20 ms (For Home Appliances)
Waveform	Pure sine wave
No Load Power Consumption	< 75W
DC Voltage	12 VDC ± 5%, 100W
BATTERY	
Battery Voltage	48 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	66 VDC
SOLAR CHARGER & AC CHARGER	
Solar Charger Type	MPPT
Maximum PV Array Power	8000W (4000W x 2)
MPPT Range @ Operating Voltage	90 ~ 450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC
Maximum Solar Charge Current	150A
Maximum AC Charge Current	120A
Maximum Charge Current	150A
PHYSICAL	
Dimension, D x W x H (mm)	158.4 x 503.6 x 530.8
Net Weight (kgs)	20
Communication Interface	USB/RS232/RS485/WiFi/Dry-contact
OPERATING ENVIRONMENT	
Humidity	5% to 95% Relative Humidity(Non-condensing)
Operating Temperature	-10°C to 50°C
Storage Temperature	-15°C to 60°C
STANDARD	
Compliance Safety	CE

Product specifications are subject to change without further notice.

Axpert MAX II TWIN Off-Grid Inverter



- Dual outputs, for smart load management
- Maximum PV input current increases to 27A
- Wide PV input voltage range 90VDC ~ 450VDC
- Status indication with RGB lights
- Built-in Wi-Fi for mobile monitoring (Android/iOS App is available)
- Supports USB On-the-Go function
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Replaceable fan design for ease of maintenance
- Battery independent design
- Configurable AC/PV output usage timer and prioritization
- Compatible to Utility Mains or generator input
- Built-in anti-dust kit
- Built-in DC output for DC fan, LED bulb, router and so on.
- Parallel operation with 6 units

OFF-GRID INVERTER

Axpert MAX II TWIN Off-Grid Inverter Selection Guide

MODEL	Axpert MAX II TWIN 8K	Axpert MAX II TWIN 11K
RATED POWER	8000VA/8000W	11000VA/11000W
PARALLEL CAPABILITY	YES, 6 units	
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%	230VAC ± 5%
Surge Power	16000VA	22000VA
Efficiency (Peak)	93%	
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
DC Voltage	12 VDC ± 5%, 100W	
BATTERY		
Battery Voltage	48 VDC	48 VDC
Floating Charge Voltage	54 VDC	54 VDC
Overcharge Protection	66 VDC	63 VDC
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	MPPT	
Maximum PV Array Power	8000W (4000W x 2)	11000W (5500W x 2)
MPPT Range @ Operating Voltage	90 ~ 450 VDC	90 ~ 450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC	500 VDC
Maximum PV Input Current	27A x 2 (MAX 40A)	
Maximum Solar Charge Current	150A	150A
Maximum AC Charge Current	120A	150A
Maximum Charge Current	150A	150A
PHYSICAL		
Dimension, D x W x H (mm)	158.4 x 503.6 x 530.8	
Net Weight (kgs)	20	
Communication Interface	USB/RS232/RS485/WiFi/Dry-contact	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	
STANDARD		
Compliance Safety	CE	CE

Product specifications are subject to change without further notice.

Axpert WP TWIN Off-Grid Inverter



- IP65 waterproof and dustproof makes the inverter available for various working conditions
- Dual outputs, for smart load management
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Replaceable fan design for ease of maintenance
- Battery independent design
- Configurable AC/PV output usage timer and prioritization
- Selectable high power charging current
- Selectable input voltage range for home appliances and personal computers
- Compatible to Utility Mains or generator input
- Parallel operation up to 6 units

Axpert WP TWIN Off-Grid Inverter Specification

MODEL	Axpert WP TWIN 8K
RATED POWER	8000VA/8000W
PARALLEL CAPABILITY	YES, 6 units
INPUT	
Voltage	230 VAC
Selectable Voltage Range	170-280 VAC (For Computers) 90-280 VAC (For Home Appliances)
Frequency Range	50 Hz/60 Hz (Auto sensing)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	230VAC \pm 5%
Surge Power	16000VA
Efficiency (Peak)	93%
Transfer Time	10 ms (For Personal Computers), 20 ms (For Home Appliances)
Waveform	Pure sine wave
No Load Power Consumption	< 85W
BATTERY	
Battery Voltage	48 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	66 VDC
SOLAR CHARGER & AC CHARGER	
Solar Charger Type	MPPT
Maximum PV Array Power	8000W (4000W x 2)
MPPT Range @ Operating Voltage	90 ~ 450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC
Maximum PV Input Current	18 A x 2
Maximum Solar Charge Current	150 A
Maximum AC Charge Current	120 A
Maximum Charge Current	150 A
PHYSICAL	
Dimension, D x W x H (mm)	210 x 435 x 665
Net Weight (kgs)	32
Communication Interface	USB/RS-232/Dry Contact/RS485/WiFi/BMS
OPERATING ENVIRONMENT	
Humidity	5% to 95% Relative Humidity (Non-condensing)
Operating Temperature	-10°C to 50°C
Storage Temperature	-15°C to 60°C
STANDARD	
Compliance Safety	CE

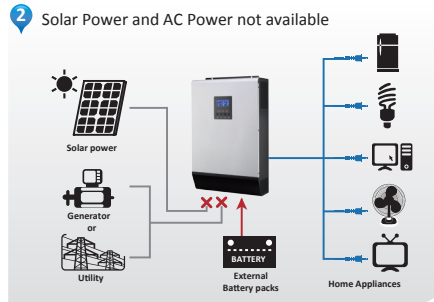
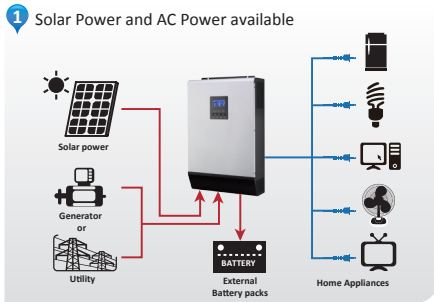
Product specifications are subject to change without further notice.

Axpert KS Off-Grid Inverter



- Pure sine wave inverter
- Output power factor 1 (only 0.8 for 3KP/5KP models)
- Selectable input voltage range for home appliances and personal computers
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to AC mains or generator power
- Parallel operation with up to 9 units only available for 3KP/4KVA/5KVA/5KP models*
- Battery equalization for optimized battery performance and lifecycle
- Optional remote panel available

Off-grid inverter with PWM solar charge controller



Axpert KS Off-Grid Inverter Selection Guide

MODEL	Axpert KS 1K	Axpert KS 2K	Axpert KS 3K	Axpert KS 3KP	Axpert KS 4K	Axpert KS 5K	Axpert KS 5KP
RATED POWER	1000VA/1000W	2000VA/2000W	3000VA/3000W	3000VA/2400W	4000VA/4000W	5000VA/5000W	5000VA/4000W
PARALLEL CAPABILITY	No	No	No	Yes, 9 units	Yes, 9 units	Yes, 9 units	Yes, 9 units
INPUT							
Voltage	230 VAC						
Selectable Voltage Range	170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)						
Frequency Range	50 Hz/60 Hz (Auto sensing)						
OUTPUT							
AC Voltage Regulation (Batt. Mode)	230VAC ± 5 %						
Surge Power	2000VA	4000VA	6000VA	6000VA	8000VA	10000VA	10000VA
Efficiency (Peak)	90%	93%		90%	93%		90%
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)						
Waveform	Pure sine wave						
BATTERY							
Battery Voltage	12 VDC	24 VDC		24 VDC	48 VDC		24 VDC
Floating Charge Voltage	13.5 VDC	27 VDC		27 VDC	54 VDC	54 VDC Max: 58VDC (optional 64VDC, please check with sales)	27 VDC
Overcharge Protection	15.5 VDC	31 VDC		30 VDC	60 VDC	60 VDC (optional 66VDC, please check with sales)	30 VDC
SOLAR CHARGER & AC CHARGER							
Maximum PV Array Open Circuit Voltage	50VDC	60VDC		75VDC	105VDC		75VDC
Maximum PV Array Power	600 W	1200 W		1200 W	2400W		1200 W
Standby Power Consumption	1 W	2 W		2 W	2W		5W
Maximum Solar Charge Current	50A	50A		50A	50A		50A
Maximum AC Charge Current	20 A	30 A		60 A	60 A		60 A
Maximum Charge Current	50 A		110 A		110 A		110 A
PHYSICAL							
Dimension, D x W x H (mm)	95 x 240 x 316	100 x 272 x 355		100 x 272 x 385	155 x 295 x 455		180 x 310 x 475
Net Weight (kgs)	5.0	6.4	6.9	7	9.8	9.8	11.5
ENVIRONMENT							
Humidity	5% to 95% Relative Humidity (Non-condensing)						
Operating Temperature	0°C to 55°C						
Storage Temperature	-15°C to 60°C						

*Typical transfer time for parallel operation is 30ms.
 **Optional remote panel is NOT available for Axpert KS 3KP / KS 5KP
 Product specifications are subject to change without further notice.

Axpert MKS Off-Grid Inverter

OFF-GRID INVERTER



- Pure sine wave inverter
- Output power factor 1 (only 0.8 for 3KP/5KP models)
- Built-in MPPT solar charge controller
- Selectable input voltage range for home appliances and personal computers
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to AC mains or generator power
- Battery equalization for optimized battery performance and lifecycle
- Parallel operation with up to 9 units only available for Axpert MKS 3KP/4KVA/5KVA/5KP*

Axpert MKS Off-Grid Inverter Selection Guide

MODEL	Axpert MKS 1K-12	Axpert MKS 2K-24	Axpert MKS 3K-24	Axpert MKS 3KP-24	Axpert MKS 4K	Axpert MKS 5K	Axpert MKS 5KP
RATED POWER	1000VA/ 1000W	2000VA/ 2000W	3000VA/ 3000W	3000VA/ 2400W	4000VA/ 4000W	5000VA/ 5000W	5000VA/ 4000W
PARALLEL CAPABILITY	No	No	No	Yes, 9 units	Yes, 9 units	Yes, 9 units	Yes, 9 units
INPUT							
Voltage	230 VAC						
Selectable Voltage Range	170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)						
Frequency Range	50 Hz/60 Hz (Auto sensing)						
OUTPUT							
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%						
Surge Power	2000VA	4000VA	6000VA		8000VA	10000VA	
Efficiency (Peak)	90% - 93%	93%		90%	93%	93%	90%
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)						
Waveform	Pure sine wave						
BATTERY							
Battery Voltage	12 VDC (24VDC and 48VDC versions are also available)	24 VDC	24 VDC (48VDC version is also available)	24 VDC	48 VDC		24 VDC
Floating Charge Voltage	13.5 VDC	27 VDC	27 VDC	27 VDC	54 VDC	54 VDC Max: 58VDC (optional 64VDC, please check with sales)	27 VDC
Overcharge Protection	15.5 VDC	31 VDC	31 VDC	30 VDC	60 VDC	60 VDC (optional 66VDC, please check with sales)	30 VDC
SOLAR CHARGER & AC CHARGER							
Maximum PV Array Power	500 W	600W	600W	1000W	4000W		2000W
MPPT Range @ Operating Voltage	15 VDC ~ 80 VDC	30 VDC~ 66 VDC	30 VDC~ 66 VDC	30 VDC~ 80 VDC	60 VDC~ 115 VDC		30 VDC~ 115 VDC
Maximum PV Array Open Circuit Voltage	102 VDC	75VDC	75VDC	100VDC	145 VDC		145 VDC
Maximum Solar Charge Current	40A	25A	25A	40A	80 A		80A
Maximum AC Charge Current	20A	30A	30A	60A	60 A		60A
Maximum Charge Current	60A	55A	55A	100A	140 A		140A
PHYSICAL							
Dimension,DxWxH (mm)	95 x 240 x 316	100 x 272 x 355		100 x 272 x 385	120 x 295 x 468		180 x 310 x 475
Net Weight (kgs)	5.2	7.0	7.4	7.5	11	11	12.5
ENVIRONMENT							
Humidity	5% to 95% Relative Humidity (Non-condensing)						
Operating Temperature	0°C to 55°C						
Storage Temperature	-15°C to 60°C						

* Typical transfer time for parallel operation is 30ms.
 ** Optional remote panel is NOT available for Axpert MKS 3KP-24 / MKS II 5K / MKS 5KP
 Product specifications are subject to change without further notice.

Axpert MKS II Off-Grid Inverter



- Pure sine wave solar inverter
- Selectable high power charging current
- Wide DC input range
- Selectable input voltage range for home appliances and personal computers
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- Parallel operation with up to 9 units
- Optional dual outputs for smart load management (check sales)

Axpert MKS II Off-Grid Inverter Selection Guide

MODEL	Axpert MKS II 5000-48	Axpert MKS II 6000-48
RATED POWER	5000VA/5000W	6000VA/6000W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	50 Hz/60 Hz (Auto sensing)
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230 VAC ± 5%	
Overload capacity	5s@≥150% load; 10s@110%~150% load; 100ms @ ≥200% load	
Efficiency (Peak)	90 %	
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
BATTERY		
Battery Voltage	48 VDC	
Floating Charge Voltage	54 VDC	
Overcharge Protection	66 VDC	
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	MPPT	
Maximum PV Array Power	4500W	6000 W
MPPT Range @ Operating Voltage	120 ~ 430 VDC	120 ~ 430 VDC
Maximum PV Array Open Circuit Voltage	450 VDC	500 VDC
Maximum Solar Charge Current	100 A	120 A
Maximum AC Charge Current	100 A	120 A
Maximum Charge Current	100 A	120 A
PHYSICAL		
Dimension, D x W x H (mm)	120 x 295 x 468	
Net Weight (kgs)	11.0	
Communication Interface	USB and RS232	
ENVIRONMENT		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	

Product specifications are subject to change without further notice.

Axpert MKS II TWIN Off-Grid Inverter



- Maximum PV input current 27A
- Dual outputs for smart load management
- Selectable high power charging current
- Wide DC input range
- Selectable input voltage range for home appliances and personal computers
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- Parallel operation with up to 9 units

Axpert MKS II TWIN Off-Grid Inverter Selection Guide

MODEL	Axpert MKS II TWIN 5K	Axpert MKS II TWIN 6K
RATED POWER	5000VA/5000W	6000VA/6000W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	50 Hz/60 Hz (Auto sensing)
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230 VAC \pm 5%	
Overload capacity	5s@ \geq 150% load; 10s@110%~150% load; 100ms @ \geq 200% load	
Efficiency (Peak)	90 %	
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
BATTERY		
Battery Voltage	48 VDC	
Floating Charge Voltage	54 VDC	
Overcharge Protection	66 VDC	
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	MPPT	
Maximum PV Array Power	4500W	6000 W
MPPT Range @ Operating Voltage	120 ~ 500 VDC	
Maximum PV Array Open Circuit Voltage	500 VDC	
Maximum PV Input Current	27A	
Maximum Solar Charge Current	100 A	120 A
Maximum AC Charge Current	100 A	120 A
Maximum Charge Current	100 A	120 A
PHYSICAL		
Dimension, D x W x H (mm)	120 x 295 x 468	
Net Weight (kgs)	11.0	
Communication Interface	USB and RS232	
ENVIRONMENT		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	

Product specifications are subject to change without further notice.

Axpert MKS III Off-Grid Inverter



- Pure sine wave solar inverter
- Detachable LCD control module with multiple communications
- Wide DC input range
- Built-in Bluetooth for mobile monitoring (Android App is available)
- Supports USB On-the-Go function
- Reserved communication port for BMS (RS485)
- Smart battery charger design for optimized battery performance
- Battery independent function
- Parallel operation up to 9 units
- Optional dual outputs for smart load management (check sales)

Axpert MKS III Off-Grid Inverter Selection Guide

MODEL	Axpert MKS III 5000-48	Axpert MKS III 6000-48
RATED POWER	5000VA/5000W	6000VA/6000W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230 VAC \pm 5%	
Overload Capacity	5s@ \geq 150% load; 10s@110%~150% load; 100ms @ \geq 200% load	
Efficiency (Peak)	93 %	
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
BATTERY		
Battery Voltage	48 VDC	
Floating Charge Voltage	54 VDC	
Overcharge Protection	66 VDC	
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	MPPT	MPPT
Maximum PV Array Power	5000 W	6000W
MPPT Range @ Operating Voltage	120 ~ 430 VDC	120 ~ 430 VDC
Maximum PV Array Open Circuit Voltage	450 VDC	500 VDC
Maximum Solar Charge Current	100 A	120 A
Maximum AC Charge Current	100 A	120 A
Maximum Charge Current	100 A	120 A
PHYSICAL		
Dimension, D x W x H (mm)	140 x 295 x 468	
Net Weight (kgs)	12.0	
Communication Interface	USB, RS232, RS485, Bluetooth	
ENVIRONMENT		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	

Product specifications are subject to change without further notice.

Axpert MKS III TWIN Off-Grid Inverter

OFF-GRID INVERTER



- Maximum PV input current 27A
- Dual outputs for smart load management
- Detachable LCD control module with multiple communications
- Wide DC input range
- Built-in Bluetooth for mobile monitoring (Android App is available)
- Supports USB On-the-Go function
- Reserved communication port for BMS (RS485)
- Smart battery charger design for optimized battery performance
- Battery independent function
- Parallel operation up to 9 units

Axpert MKS III TWIN Off-Grid Inverter Selection Guide

MODEL	Axpert MKS III TWIN 5K	Axpert MKS III TWIN 6K
RATED POWER	5000VA/5000W	6000VA/6000W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230 VAC ± 5%	
Overload Capacity	5s@≥150% load; 10s@110%~150% load; 100ms @ ≥200% load	
Efficiency (Peak)	93 %	
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
BATTERY		
Battery Voltage	48 VDC	
Floating Charge Voltage	54 VDC	
Overcharge Protection	66 VDC	
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	MPPT	MPPT
Maximum PV Array Power	5000 W	6000W
MPPT Range @ Operating Voltage	120 ~ 500 VDC	
Maximum PV Array Open Circuit Voltage	500 VDC	
Maximum PV Input Current	27A	
Maximum Solar Charge Current	100 A	120 A
Maximum AC Charge Current	100 A	120 A
Maximum Charge Current	100 A	120 A
PHYSICAL		
Dimension, D x W x H (mm)	140 x 295 x 468	
Net Weight (kgs)	12.0	
Communication Interface	USB, RS232, RS485, Bluetooth	
ENVIRONMENT		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	

Product specifications are subject to change without further notice.

Axpert MKS IV Off-Grid Inverter



- Pure sine wave MPPT solar inverter
- Customizable status LED ring with RGB lights
- Touchable button with 4.3" colored LCD
- Wide DC input range
- Supports USB On-the-Go function
- Data log events stored in the inverter
- Built-in Wi-Fi for mobile monitoring (App is available)
- Reserved communication port for BMS
- Battery independent function
- Parallel operation with up to 9 units
- Optional dual outputs for smart load management (check sales)

User-programmable RGB lighting for different operation mode



Three lighting effects

- Cycling**
Quickly scrolling with a color of your choice in a continuous circular motion
- Wheel**
Illuminates with twinkling lights in a color of your choice
- Chasing**
Radiates your selected color upward from the bottom of the ring

Axpert MKS IV Off-Grid Inverter Selection Guide

MODEL	Axpert MKS IV 3600-48	Axpert MKS IV 5600-48	Axpert MKS IV 6000-48
RATED POWER	3600VA/3600W	5600VA/5600W	6000VA/6000W
INPUT			
Voltage	230 VAC		
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)		
Frequency Range	50Hz/60 Hz (Auto sensing)		
OUTPUT			
AC Voltage Regulation (Batt. Mode)	230 VAC ± 5%		
Overload capacity	5s@≥150% load; 10s@110%~150% load; 100ms @ ≥200% load		
Efficiency (Peak)	93 %		
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)		
Waveform	Pure sine wave		
BATTERY			
Battery Voltage	48 VDC	48 VDC	48 VDC
Floating Charge Voltage	54 VDC	54 VDC	54 VDC
Overcharge Protection	66 VDC	66 VDC	66 VDC
SOLAR CHARGER & AC CHARGER			
Solar Charger Type	MPPT	MPPT	MPPT
Maximum PV Array Power	5000 W	6000 W	6000 W
MPPT Range @ Operating Voltage	120 ~ 430 VDC		
Maximum PV Array Open Circuit Voltage	500 VDC	450 VDC	500 VDC
Maximum Solar Charge Current	100 A	120 A	120 A
Maximum AC Charge Current	100 A	120 A	120 A
PHYSICAL			
Dimension, D x W x H (mm)	140 x 295 x 468		
Net Weight (kgs)	11.0	12.0	12.0
Communication Interface	USB/RS232/RS485/Wifi/Dry-contact		
ENVIRONMENT			
Humidity	5% to 95% Relative Humidity(Non-condensing)		
Operating Temperature	-10°C to 50°C		
Storage Temperature	-15°C to 60°C		

Product specifications are subject to change without further notice.

Axpert MKS IV TWIN Off-Grid Inverter



- Maximum PV input current 27A
- Dual outputs for smart load management
- Customizable status LED ring with RGB lights
- Touchable button with 4.3" colored LCD
- Wide DC input range
- Built-in Wi-Fi for mobile monitoring (App is available)
- Reserved communication port for BMS
- Battery independent function
- Parallel operation with up to 9 units

Axpert MKS IV TWIN Off-Grid Inverter Selection Guide

MODEL	Axpert MKS IV TWIN 5K	Axpert MKS IV TWIN 6K
RATED POWER	5600VA/5600W	6000VA/6000W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
Frequency Range	50Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230 VAC \pm 5%	
Overload capacity	5s@ \geq 150% load; 10s@110%~150% load; 100ms @ \geq 200% load	
Efficiency (Peak)	93 %	
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
BATTERY		
Battery Voltage	48 VDC	48 VDC
Floating Charge Voltage	54 VDC	54 VDC
Overcharge Protection	66 VDC	66 VDC
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	MPPT	MPPT
Maximum PV Array Power	6000 W	6000 W
MPPT Range @ Operating Voltage	120 ~ 500 VDC	
Maximum PV Array Open Circuit Voltage	500 VDC	
Maximum PV Input Current	27A	
Maximum Solar Charge Current	120 A	120 A
Maximum AC Charge Current	120 A	120 A
PHYSICAL		
Dimension, D x W x H (mm)	140 x 295 x 468	
Net Weight (kgs)	12.0	12.0
Communication Interface	USB/RS232/RS485/Wifi/Dry-contact	
ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	

Product specifications are subject to change without further notice.

Axpert Plus Duo/Tri Off-Grid Inverter



- Pure sine wave inverter
- Built-in 2 or 3 strings of MPPT solar charge controller depending on models
- Wide battery input range
- Selectable input voltage range for home appliances and personal computers
- Selectable high power charging current
- Configurable AC/Solar input priority via LCD setting
- Compatible to AC mains or generator power
- Optional remote panel available
- Multiple communication : USB & SNMP
- Parallel operation with up to 9 units only available for 5KVA

Axpert Plus Duo/Tri Off-Grid Inverter Selection Guide

MODEL	Axpert Plus Duo 1.5K-12	Axpert Plus Duo 1.5K-48	Axpert Plus Duo 3K-24	Axpert Plus Duo 3K-48	Axpert Plus Duo 5K	Axpert Plus Tri 5K
RATED POWER	1500VA/1200W		3000VA/2400W		5000VA/5000W	
INPUT						
Voltage	230 VAC					
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)					
Frequency Range	50 Hz/60 Hz (Auto sensing)					
OUTPUT						
AC Voltage Regulation (Batt. Mode)	230VAC \pm 5%					
Surge Power	3000VA		6000VA		10000VA	
Efficiency (Peak)	90% - 93%					
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)					
Waveform	Pure sine wave					
BATTERY						
Battery Voltage	12 VDC	48 VDC	24 VDC	48 VDC	48 VDC	48 VDC
Floating Charge Voltage	13.5 VDC	54 VDC	27 VDC	54 VDC	54 VDC	54 VDC
Overcharge Protection	16 VDC	62 VDC	32 VDC	62 VDC	60 VDC	60 VDC
SOLAR CHARGER & AC CHARGER						
Maximum PV Array Power	1000W	2000W	2000W	3000 W	6000W	9000W
MPPT Range @ Operating Voltage	15~80 VDC	60 ~ 90 VDC	30~80 VDC	60 ~ 90 VDC	60~115 VDC	
Maximum PV Array Open Circuit Voltage	100 VDC				145 VDC	
Maximum Solar Charge Current	40A x 2	20A x 2	40A x 2	30A x 2	60A x 2	60A x 3
Maximum AC Charge Current	60 A	30 A	60 A	60 A	60 A	60 A
Maximum Charge Current	140 A	70 A	140 A	120 A	180 A	240 A
Maximum Efficiency	98%					
PHYSICAL						
Dimension, DxWxH(mm)	124 x 272 x 400				194 x 295 x 455	
Net Weight (kgs)	8.0				16	17
ENVIRONMENT						
Humidity	5% to 95% Relative Humidity (Non-condensing)					
Operating Temperature	-20°C to 55°C				0°C to 55°C	
Storage Temperature	-30°C to 60°C				-15°C to 60°C	

Product specifications are subject to change without further notice.

Jaguar M Solar Inverter



- Simulated sine wave inverter
- Built-in 50A MPPT solar charger
- Selectable output source priority via LCD setting
- Wide input voltage range: 90-280 VAC
- Overload and short circuit protection
- Combines LCD display and LED indicator for comprehensive information

Jaguar M 1.2K/2.4K Solar Inverter Selection Guide

MODEL	Jaguar-M 1.2K	Jaguar-M 2.4K
CAPACITY	1200VA / 900W	2400VA / 1600W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	90-280 VAC or 170-280 VAC	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230 VAC \pm 10%	
Overload Capability	Load >110% \pm 15%, alarm 5 minutes and then inverter fault If decreasing the load until lower than 100%, the overload alarm can release. Load >130% \pm 15%, inverter fault immediately.	
Efficiency (Peak)	82%	85%
Transfer Time	20 ms	
Waveform	Simulated Sine Wave	
BATTERY		
Battery Voltage	12 VDC	24 VDC
Floating Charge Voltage	13.7 VDC \pm 0.5 VDC	27.4 VDC \pm 0.5 VDC
Overcharge Protection	15.0VDC \pm 0.5 VDC	30.0VDC \pm 1 VDC
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	MPPT	MPPT
Maximum PV Array Open Circuit Voltage	100 VDC	100 VDC
Maximum PV Array Power	600 W	1200 W
MPP Range @ Operating Voltage	15 ~ 80 VDC	30 ~ 80 VDC
Maximum Solar Charge Current	50A	50A
Maximum AC Charge Current	10A /20A	10A/20A
Maximum Charge Current	50A	50A
PHYSICAL		
Dimension, D X W X H (mm)	272 x 212 x 127	
Net Weight (kgs)	4.5	4.8
OPERATING ENVIRONMENT		
Humidity	0 to 90% Relative Humidity (Non-condensing)	
Operating Temperature	0°C to 40°C	
Storage Temperature	-15°C to 50°C	

Product specifications are subject to change without further notice

Aspire



- Built-in MPPT solar charger
- Supports single phase or three-phase asynchronous motor depending on models
- Supports single phase AC input when PV energy is not sufficient (only for Aspire 2.2KW LS model)
- Built-in full protection and self-diagnosis
- Soft start function prevents water hammer effect and extends system lifecycle
- Comprehensive LEDs and display screen for real-time system status
- Optional remote panel available
- Remote monitoring software via RS-485 communication

WATER PUMP INVERTER

Aspire Water Pump Solar Inverter Selection Guide

MODEL	Aspire 2.2KW LS		Aspire 2.2KW		Aspire 7.5KW		Aspire 11KW		Aspire 15KW			
RATED OUTPUT POWER	2200 W(3HP) (supports 0.75~3HP water pump)		2200 W(3HP) (supports 0.75~3HP water pump)		7500 W(10HP) (supports 3~10HP water pump)		11000 W(15HP) (supports 10~15HP water pump)		15000 W(20HP) (supports 10~20HP water pump)			
PV INPUT (DC)												
Nominal DC Voltage / Maximum DC Voltage	330 VDC / 450 VDC				540 VDC / 800 VDC				540 VDC / 800 VDC			
Start-up Voltage	120 VDC				250 VDC							
MPPT Voltage Range	120 VDC ~ 420 VDC				250 VDC ~ 780VDC				500 VDC ~ 600VDC			
Number of MPP Trackers	1											
AC INPUT												
Input Voltage	220/230/240 VAC (-15% ~ +10%)		N/A									
Input Frequency	47 Hz ~ 63 Hz											
OUTPUT												
Nominal Voltage	220/230/240 VAC	3 x 220/230/240 VAC	3 x 380/400/415/440 VAC									
Efficiency	> 97%		> 97%									
Nominal Output Current	14 A	10 A	5.0 A	15 A	22 A	29 A						
Motor Type	Single-phase (default)	Three-phase	Three-phase asynchronous motor									
Frequency Precision	±0.2%											
PROTECTION												
Full Protection	Phase lost, dry pumping, motor locked, weak sunlight, over-voltage, under-voltage, over-current, surge, over-temperature and short circuit protection											
PHYSICAL												
Dimension, D X W X H (mm)	110 x 230 x 342								205 x 218 x 320			
Net Weight (kgs)	5	5.5	6	6.5	6							
IP Protection	IP20											
INTERACE												
Communication Port	RS-232/RJ45 (RS-485 communication)											
ENVIRONMENT												
Humidity	< 95% RH (Non-condensing)											
Operating Temperature	-20°C~45°C at 100% full load, 46°C~60°C power derating											

Product specifications are subject to change without further notice.

Aspire AS



- Built-in MPPT solar charger
- Supports three-phase asynchronous motor depending on models
- Built-in full protection and self-diagnosis
- Soft start function prevents water hammer effect and extends system lifecycle
- Comprehensive LEDs and display screen for real-time system status
- Remote monitoring through RS-485
- Optional remote panel available

Aspire AS Water Pump Solar Inverter Selection Guide

MODEL	Aspire AS-5.5KW	Aspire AS-7.5KW	Aspire AS-11KW	Aspire AS-15KW	Aspire AS-18.5KW	Aspire AS-22KW
RATED OUTPUT POWER	5500 W(7HP)	7500 W(10HP)	11000 W(15HP)	15000 W(20HP)	18500 W(25HP)	22000 W(30HP)
PV INPUT (DC)						
Maximum DC Voltage	800 VDC					
Start-up Voltage	250 VDC					
Recommended MPPT Voltage Range	500 VDC ~ 600VDC					
Number of MPP Trackers	1					
AC INPUT						
Input Voltage	3 x 380/400/415/440 VAC (CAUTION:PV and AC input can not be connected at the same time!!!)					
Input Frequency	50Hz					
OUTPUT						
Nominal Voltage	3 x 380/400/415/440 VAC					
Efficiency	> 97%					
Nominal Output Current	13A	17A	25A	32A	37A	45A
Motor Type	Three-phase asynchronous motor					
Frequency Precision	±0.2%					
PROTECTION						
Full Protection	Phase lost, dry pumping, motor locked, weak sunlight, over-voltage, under-voltage, over-current, surge, over-temperature and short circuit protection					
PHYSICAL						
Dimension, D x W x H (mm)	160 x 187 x 238			170 x 195 x 330		
Net Weight (kgs)	3.04	3.12	3.5	4.8	5	5.2
Type of Mechanical Protection	IP20					
INTERACE						
Communication Port	RS-485					
ENVIRONMENT						
Humidity	< 95% RH (Non-condensing)					
Operating Temperature	-20°C~45°C at 100% full load, 46°C~60°C power derating					

Product specifications are subject to change without further notice.

Remote Monitoring & Management



SNMP Web Pro

SNMP Web Pro

- Built-in web server to control and monitoring of multiple inverters through LAN or Internet
- Built-in 32MB flash memory to save more than 2 million threads
- Set with real-time clock to record log by date and keep running up to 7 days even without power connection.
- Support EMD monitoring and SMS service



Modbus Card

Modbus Card

- Real-time control and monitoring of multiple inverters via RS-485 communication port
- Supports Modbus RTU protocol
- Provide MODBUS functions including read Holding Registers and write Registers
- Provide surge protection



Modbus Box

Modbus Box

- Support to monitor off-grid inverter through modbus interface
- Implement MODBUS RTU protocol
- Integrated with WatchPower software
- Support Axpert series inverter



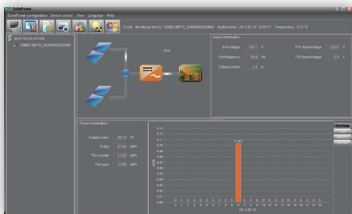
Modbus Duo

Modbus Duo

- Provides more communication capability for the inverter without intelligent slot
- Supports dual communication ports for BMS management/ Smart energy meter monitoring or BMS management/Modbus monitoring

Monitoring Software

SolarPower



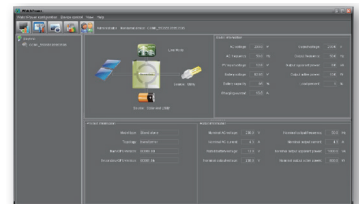
SolarPower is a solar inverter monitoring software. It can monitor multiple devices via **USB and Serial port** at the same time. The major functions of SolarPower monitoring software include data log for devices, power generation statistics, alarm messages, fault messages and parameter setting for devices.

SolarPower Pro



SolarPower Pro is a solar inverter monitoring software to monitor up to 247 devices via **modbus or SNMP** interface. It allows web browsing in a networking environment. The major functions of SolarPower Pro monitoring software include data log for devices, power generation statistics, alarm messages, fault messages, and parameter setting for devices.

WatchPower



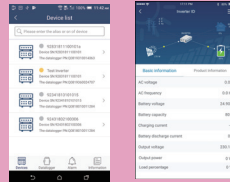
WatchPower is an off-grid inverter monitoring software which can monitor multiple Axpert devices via serial port at the same time. The major functions include data log for devices, alarm and fault recording. Besides, it also can configure advanced parameters such as charger source priority, output source priority, AC input range and battery type based on diverse applications.

Wi-Fi Module/GPRS/3G/Wi-Fi Card & Box



Wi-Fi Module

- Real-time dynamic graphs of inverter data
- Cloud storage for history data and event log
- Remote monitoring and control of multiple inverters via mobile APP (iOS and Android)
- Parameter settings available (output setting, output priority setting, AC input range, battery setting and etc.)



WatchPower WiFi



GPRS/3G Card

Wi-Fi Card

GPRS/3G Card & Box

- Allow to access historic data in centralized data center
- Built-in SIM card slot
- Data transmission to data center via the Internet
- Warning notifications via mobile messenger
- Historic data log stored in centralized PC databas or Email
- Remotely monitoring inverter(s) data through the data server at any time

Wi-Fi Card & Box

- Upload information to data server via wireless network
- Remotely monitoring inverter(s) data through the data server at any time
- Event Notification via Email
- Built-in web server
- Automatic firmware upgrade



Box version is ready now!

Wi-Fi Module/GPRS/3G/Wi-Fi Card Selection Guide

MODEL	Wi-Fi Module	GPRS Card	3G Card	Wi-Fi Card
Network Support	802.11 b/g/n, AP/STA	GPRS /GSM 850/900/1800/1900 • Multislot Class 12 • Full PBCC support • Mobile Station Class B*	GSM/GPRS/EDGE: Dual band GSM 900/1800MHz UMTS/HSPA+: Dual band UMTS 900/2100MHz	802.11 b/g/n STA, AP, P2P
Network Protocol		TCP/IP, UDP, HTTP, HTTPS, IPv4, SSL		
SIM Card	N/A	Micro card 12 x 15 mm	Micro card 12 x 15 mm	N/A
Communication Interface	RS232	Golden finger		
Power Input	5V-12V	12 V		
Power Consumption	2 watt (max.)	2 watt (max.)		
Firmware Upgrade		Via network		
Operating Temperature	-20°C ~ 75°C	-10°C to 75°C		
Operating Humidity	0 ~ 95%	0 ~ 95%		
Storage Temperature	-30°C to 80°C	-15°C to 85°C		
Dimension, D x W x H (mm)	28 x 46 x 172	23 x 47 x 15		

Product specifications are subject to change without further notice.

