

- Inverter/Charger
- Solar Charge Controller
- On-Grid Inverter
- On-Grid Inverter with Energy Storage
- Off-Grid Inverter
- Inverter
- Solar Lighting Solution



In our world, everything is built to last.



VOLTRONIC POWER TECHNOLOGY CORP.

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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 3 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	220VAC/230 VAC	
Acceptable Voltage Range	140-300VAC	
Frequency	50 Hz	
OUTPUT		
Output Voltage	220VAC/230 VAC	
Voltage Regulation (Batt. Mode)	± 10%	
Transfer Time	10 ms (For Personal Computer) 20 ms (for Home Appliances)	
Waveform (Batt. Mode)	Pure sine wave	
BATTERY & AC CHARGER		
Battery Voltage	12 VDC	24 VDC
Floating Charge Voltage	13.7 VDC ±2%	27.4 VDC ±2%
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	10 A or 20 A
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 Inverter/Charger



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

INVERTER/CHARGER

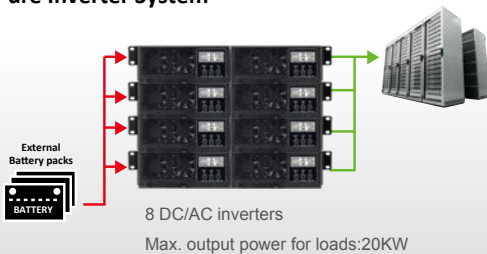
Description

+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.

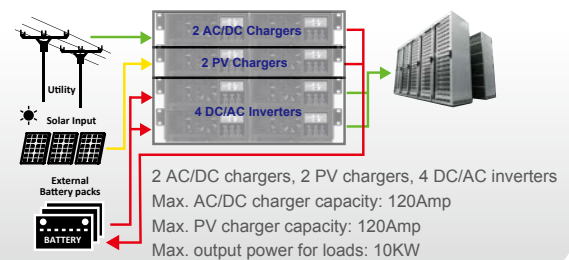
+Nova is designed with hot-swappable inverter/charger module which ensures low MTTR, reduction in service cost and meets future expansion demands.

Multifunctional Operation

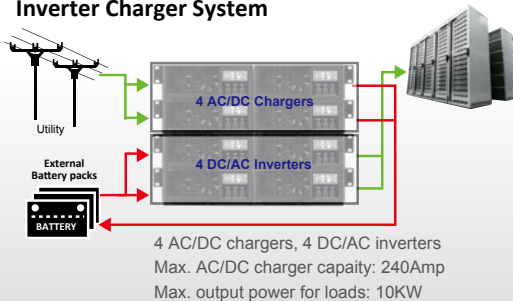
Pure Inverter System



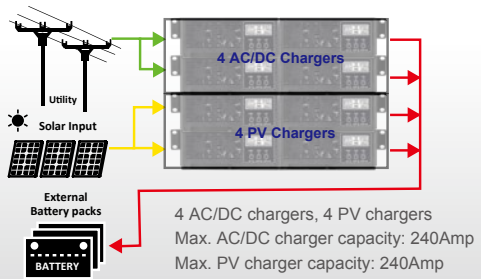
Hybrid System



Inverter Charger System



Super Charger System



+Nova Modular Inverter/Charger Selection Guide

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	400VDC
MPPT Voltage Range	200VDC ~ 370VDC
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

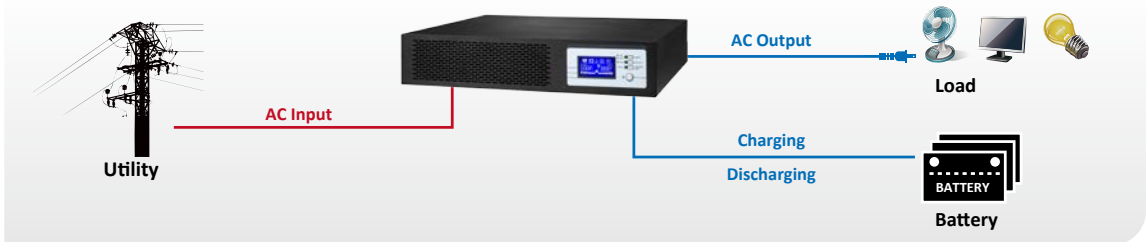
Product specifications are subject to change without further notice.

EPS 5KW Rackmount Inverter/Charger



- Pure sine wave output
- 5KW per EPS module, paralleable to 45KW
- 60A AC charger per module, up to 540A super large AC charger per system
- Selectable charging current based on applications
- Configurable parameter setting via LCD display
- Compatible with mains voltage or generator power
- Optional 80A MPPT solar charge

INVERTER/CHARGER



EPS 5KW Rackmount Inverter/Charger 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 ± 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.

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	$\pm 1\text{ V}$					
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					

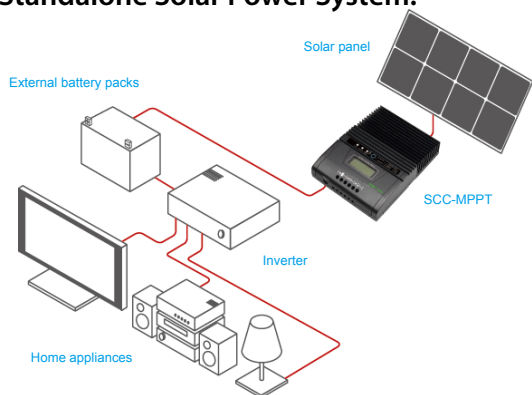
Product specifications are subject to change without further notice.

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			Sealed lead acid, AGM or Gel
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			
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.

EnerSolar On-Grid Inverter



EnerSolar 1.5KW/2KW/3KW

EnerSolar 5KW

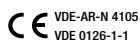
- Advanced DSP control technology delivers accurate data
- Built-in smart MPPTs to enhance overall efficiency
- Up to 96% high conversion efficiency
- Modulized design for easy maintenance
- Industrial-grade components used for robust operation
- Data log up to 15 years
- IP 65 protection for outdoor and harsh environment
- 5-year product warranty
- Optional monitoring software

EnerSolar On-Grid Inverter Selection Guide

MODEL	EnerSolar 1.5KW	EnerSolar 2KW	EnerSolar 3KW	EnerSolar 5KW
INPUT(DC)				
Max. DC Power	1650 W	2200 W	3300 W	5000 W
Maximum DC Voltage	500 VDC			
MPP Voltage Range	125 VDC ~ 450 VDC	170 VDC ~ 450 VDC	250 VDC ~ 500 VDC	180 VDC ~ 500 VDC
Nominal DC Voltage	370 VDC			
Start-up Voltage / Initial Feeding Voltage	125VDC / 150VDC			
Maximum Input Current	1 x 13A			2 x 13A
Number of MPP Trackers / Strings per MPP Tracker	1 / A:1			2 / A:1;B:1
OUTPUT(AC)				
AC Nominal Power	1500 W	2000 W	3000 W	4600 W (only apply for VDE 4105) or 5000 W
Maximum AC Apparent Power	1500 VA	2000 VA	3000 VA	4600 VA (only apply for VDE 4105) or 5000 VA
Nominal AC Voltage	230 VAC			
AC Voltage Range	184-264 VAC*			
AC Grid Frequency	50 Hz / 60 Hz			
Nominal Output Current	6.6 A	8.7A	13 A	20 A
Power Factor @ Rated Power	> 0.99			
EFFICIENCY				
Maximum Efficiency	96%		97.0%	97.0%
European Efficiency @ Nominal Voltage & 100% Load	95%		96.0%	96.0%
PROTECTION				
DC Reverse-Polarity Protection	Yes			
Ground Fault Monitoring	Yes			
Grid Monitoring	Yes			
AC Short Circuit Protection	Yes			
Over Current Protection	30 A			50 A
PHYSICAL				
Dimension,DxWxH(mm)	160 x 270 x 450			182 x 308 x 515
Net Weight (kgs)	12.7			20.5
INTERFACE				
Intelligent Slot	USB & RS-232 card / Option: SNMP card and Modbus card			
ENVIRONMENT				
Humidity	0 ~ 100% RH (Non-condensing)			
Operating Temperature	-25°C to 60°C			
Altitude	0 ~ 1000 m**			
COMPLIANCE				
Standard	CE, VDE-AR-N 4105, IEC62109, VDE 0126-1-1			

*The AC Voltage Range may vary depending on different country grid standard

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



EnerSolar V On-Grid Inverter



- Advanced DSP control technology delivers accurate data
- Built-in smart MPPTs to enhance overall efficiency
- Up to 96% high conversion efficiency
- Modulized design for easy maintenance
- Data log up to 15 years
- Optional monitoring software

EnerSolar V On-Grid Inverter Selection Guide

MODEL	EnerSolar V 3KW	EnerSolar V 5KW
PHASE	1-phase out	
INPUT(DC)		
Max. DC Power	3150W	5300W
Maximum DC Voltage	500 VDC	
MPP Voltage Range	250 VDC ~ 450 VDC	
Nominal DC Voltage	360 VDC	
Start-up Voltage / Initial Feeding Voltage	125VDC / 160VDC	
Maximum Input Current	1 x 13A	1 x 18A
Number of MPP Trackers / Strings per MPP Tracker	1 / A:1	
OUTPUT(AC)		
AC Nominal Power	3000 W	5000 W
Maximum AC Apparent Power	3000 VA	5000 VA
Nominal AC Voltage	230 VAC	
AC Voltage Range	184-264 VAC*	
AC Grid Frequency	50 Hz / 60 Hz	
Nominal Output Current	13 A	21.7 A
Output current THDI%	<5%	
Power Factor @ Rated Power	> 0.99	
EFFICIENCY		
Maximum Efficiency	96%	
European Efficiency @ Nominal Voltage & 100% Load	95%	
PROTECTION		
DC Reverse-Polarity Protection	Yes	
Ground Fault Monitoring	Yes	
Grid Monitoring	Yes	
AC Short Circuit Protection	Yes	
Over Current Protection	30 A	50 A
PHYSICAL		
Dimension,DxWxH(mm)	480 x 285 x 125	
Net Weight (kgs)	9.5	9.8
Type of Mechanical Protection	IP 20	
INTERFACE		
Communication Port	RS-232/USB	
Intelligent Slot	Optional SNMP, Modbus available	
ENVIRONMENT		
Humidity	0 ~ 90% RH (Non-condensing)	
Operating Temperature	0°C to 40°C	
Altitude	0 ~ 1000 m**	
COMPLIANCE		
Standard	IEC62109, EMC	

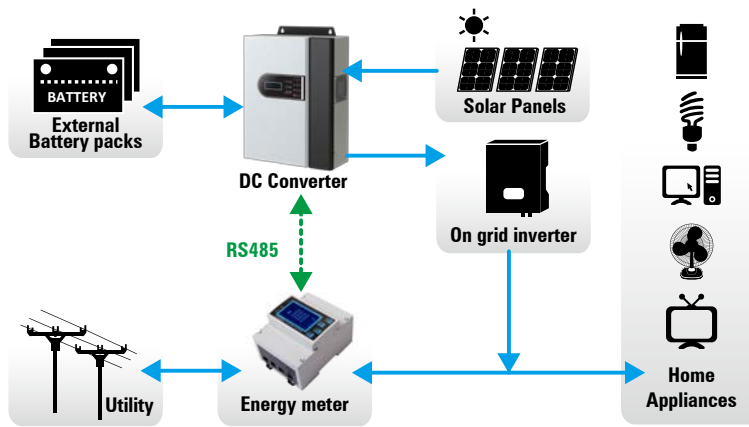
* The AC Voltage Range may vary depending on different country grid standard
 ** Power derating 1% every 100 m when altitude is over 1000m
 Product specifications are subject to change without further notice



DC Converter 3KW



- Convert existing on-grid system to energy storage
- Built-in MPPT
- Compatible to high voltage battery
- Support wide range of lead-acid batteries including wet, AGM and gel batteries



DC Converter 3KW Selection Guide

MODEL	DC Converter 3KW
PV INPUT	
Max. PV Array Power	4500 W
Maximum PV Array Open Circuit Voltage	580 VDC
MPPT Voltage Range	180 VDC ~ 500 VDC
Number of MPP Tracker	1
Maximum Bypass PV Array Current	20 A
DC OUTPUT	
Nominal Output Power	3000 W
Output Voltage Range	250 VDC ~ 450 VDC
Maximum Conversion Efficiency	98%
BATTERY & CHARGER	
Nominal Discharge and Charging Power	3000 W
Nominal DC Voltage Range	250 VDC ~ 450 VDC
Maximum Charging Efficiency	98%
PHYSICAL	
Dimension, D x W x H (mm)	96 x 363 x 284
Net Weight (kgs)	9
INTERFACE	
Communication Port	Modbus
ENVIRONMENT	
Humidity	0 ~ 90% RH (Non-condensing)
Operating Temperature	0 to 40°C

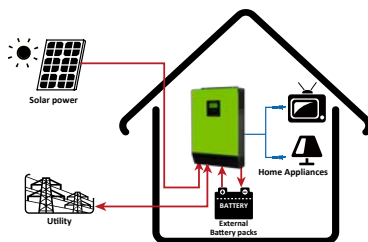
Product specifications are subject to change without further notice.

Feed-in Grid inverter with Energy Storage at Good Price/Performance

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, 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	30A		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



- Pure sine wave output
- Product keeps running even only with one power source no matter it's solar energy, battery or utility
- 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
- Parallel operation up to 9 units only for 3K model

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

MODEL	InfiniSolar V II-1.5K-48	InfiniSolar V II-3K-48
Max. PV Array Power	2000W	4000W
Rated Output Power	1500W	3000W
Maximum PV Array Open Circuit Voltage	400 VDC	450 VDC
MPPT Range @ Operating Voltage	120 VDC ~ 380 VDC	120 VDC ~ 400 VDC
MPP Tracker Number	1	1
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	6.5A	13A
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	30A	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	48 VDC	
Maximum Solar Charge Current	30 A	60 A
Maximum AC Charge Current	40 A	60 A
Maximum Charge Current	40 A	60 A
GENERAL		
PHYSICAL		
Dimension, D x W x H (mm)	100 x 300 x 440	120 x 295 x 468
Net Weight (kgs)	8	11
INTERFACE		
Parallel Function	N/A	Yes, 9 units
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: On-Grid Inverter with Energy Storage

Innovative and Cost-effective Power Solution



- 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 operation modes: Grid-tie, off-grid and grid-tie with backup
- Built-in timer for various on/off operation modes
- Multiple communication for USB, RS-232, Modbus and SNMP
- Monitoring software for real-time status display and control
- Parallel operation up to 6 units for 5KW and 10KW

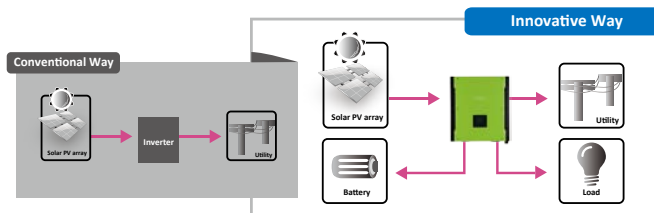
ON-GRID INVERTER WITH ENERGY STORAGE

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.



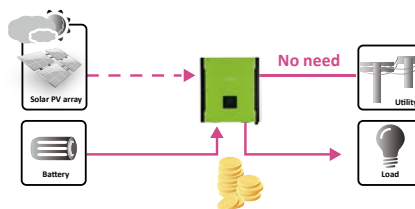
Feed-in is not the only choice

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.



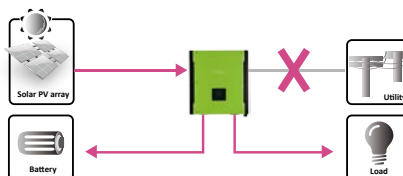
Save money by discharging battery for self-consumption first

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 3KW	InfiniSolar Plus 5KW	InfiniSolar 3P 10KW
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
RATED OUTPUT POWER	2000 W	3000 W	5000 W	10000 W
MAXIMUM CHARGING POWER	1200 W		4800 W	9600 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
Start-up Voltage / Initial Feeding Voltage	80 VDC / 120 VDC	116 VDC / 150 VDC	225 VDC / 250 VDC	320 VDC / 350 VDC
MPP Voltage Range	120 VDC ~ 320 VDC	250 VDC ~ 450 VDC	250 VDC ~ 850 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
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 - 265 VAC* per phase
Nominal Output Current	18 A	13 A	21 A	14.5A 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
MPP Voltage Range	150 VDC ~ 320 VDC	250 VDC ~ 450 VDC	250 VDC ~ 850 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 10A	2 / 2 x 18.6A
BATTERY MODE OUTPUT (AC)				
Nominal Output Voltage	101/110/120/127 VAC	202/208/220/230/240 VAC	202/208/220/230/240 VAC	230 VAC (P-N) / 400 VAC (P-P)
Output Waveform	Pure Sinewave			
Efficiency (DC to AC)	90%	93%		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
Start-up Voltage / Initial Feeding Voltage	80 VDC / 120 VDC	116 VDC / 150 VDC	225 VDC / 250 VDC	320 VDC / 350 VDC
MPP Voltage Range	150 VDC ~ 320 VDC	250 VDC ~ 450 VDC	250 VDC ~ 850 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 10A	2 / 2 x 18.6A
GRID OUTPUT (AC)				
Nominal Output Voltage	101/110/120/127 VAC	202/208/220/230/240 VAC	202/208/220/230/240 VAC	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	88-127 VAC*	184 - 264.5 VAC*		184 - 264.5 VAC* per phase
Nominal Output Current	18 A	13 A	21 A	14.5 A 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
Acceptable Input Voltage Range	80 - 130 VAC	170 - 280 VAC		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	202/208/220/230/240 VAC	202/208/220/230/240 VAC	230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC to AC)	90%	93%		91%
BATTERY & CHARGER				
Nominal DC Voltage	48 VDC			
Maximum Charging Current	Default 25A, 5A - 25A (Adjustable)		Default 60A, 5A - 100A (Adjustable)	Default 60A, 10A - 200A (Adjustable)
GENERAL				
PHYSICAL				
Dimension, D x W x H (mm)	107 x 438 x 480		204.2 x 460 x 600	167.5 x 500 x 622
Net Weight (kgs)	15.5		29	45
INTERFACE				
Communication Port	RS-232/USB		RS-232/USB	
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



- 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
- Accept dual AC inputs : Utility and Generator compatible
- Built-in emergent power supply port for emergent lighting or loads
- Multiple communication for USB, Modbus and SNMP
- Monitoring software for real-time status display and control
- Parallel operation up to 6 units
- Enhance AC/Solar charger to 80A

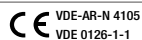
InfiniSolar Super On-Grid Inverter with Energy Storage Specification

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
INTERACE	
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.



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
- Monitoring software for real-time status display and control
- Enhances AC/Solar charger to 60A

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.

Axpert V Off-Grid Inverter



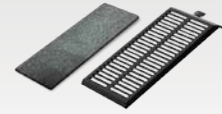
- Pure sine wave solar inverter
- Selectable high power charging current
- Wide DC input range
- Selectable input voltage range for home appliances and personal computers
- Configurable AC/Solar input priority via LCD setting
- Compatible with mains voltage or generator power
- Auto restart while AC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



Anti-Dust Kit (optional)

Anti-Dust Kit (Option)

After installing this anti-dust kit, inverter will automatically detect this kit and activate internal thermal sensor to adjust internal temperature. By virtue of the dustproof design, it dramatically increases product reliability in harsh environment.



Axpert V Off-Grid Inverter Selection Guide

MODEL	Axpert VP 1000-12	Axpert VP 2000-24	Axpert VP 3000-24	Axpert VM 3000-24	Axpert VM 3000-24 Plus	Axpert VM II 3000-24	Axpert VP 5000-48	Axpert VM 5000-48	Axpert VM II 5000-48	
Rated Power	1000VA/800W	2000VA/1600W		3000VA / 2400W			5000VA / 4000W			
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	PWM	PWM	MPPT		MPPT	PWM	MPPT	MPPT	
Maximum PV Array Open Circuit Voltage	55 VDC	80 VDC	80 VDC	102 VDC	145 VDC	500 VDC	105 VDC	145 VDC	500 VDC	
Maximum PV Array Power	600 W	1200 W	1200 W	1000 W	1500 W	4000 W	2400 W	3000 W	4000 W	
MPP Range @ Operating Voltage	N/A	N/A	N/A	30~80 VDC	30~115 VDC	120~450 VDC	N/A	60 ~ 115 VDC	120~450 VDC	
Maximum Solar Charge Current	50 A	50 A	50 A	40 A	60 A	80 A	50 A	60 A	80 A	
Maximum AC Charge Current	20 A	20 A	25A	25A	60 A	60 A	60 A	60 A	60 A	
Maximum Charge Current	50 A	50 A	70 A	60 A	120 A	80 A	110 A	120 A	80 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)	5.0	5.5	6.3	6.5	9.5	9	8.5	9.7	10	
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.

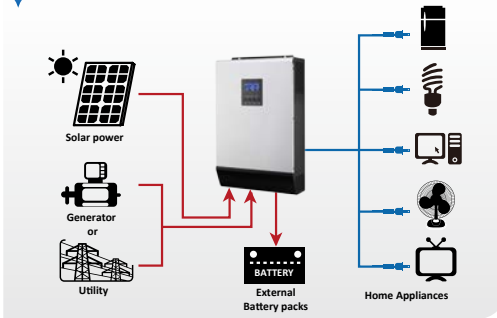
Axpert KS Off-Grid Inverter



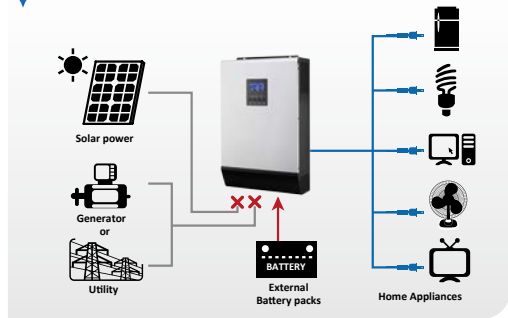
- Pure sine wave inverter
- Output power factor 1 (only 0.8 for 3KP/5KP models)
- Selectable input voltage range for home appliances and personal computers
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator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

Off-grid inverter with PWM solar charge controller

1 Solar Power and AC Power available



2 Solar Power and AC Power not available



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		Default:24 VDC, Max:30 VDC	54 VDC	54 VDC Max: 58VDC (optional 64VDC, please check with sales)	Default:24 VDC, Max:30 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	90VDC		75VDC
Maximum PV Array Power	600 W	1200 W		1200 W	2400W		1200 W
Standby Power Consumption	1 W	2 W		2 W	5W		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	7.5	9.8	9.8	12.5
ENVIRONMENT							
Humidity	5% to 95% Relative Humidity (Non-condensing)						
Operating Temperature	0°C - 55°C						
Storage Temperature	-15°C - 60°C						

*Typical transfer time for parallel operation is 30ms. Product specifications are subject to change without further notice.

Axpert MKS 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 mains voltage 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
- Parallel operation with up to 9 units only available for Axpert MKS 3KP/4KVA/5KVA*

OFF-GRID INVERTER

Axpert MKS Off-Grid Inverter Selection Guide

MODEL	Axpert MKS 1K-24	Axpert MKS 1K-48	Axpert MKS 2K-24	Axpert MKS 3K-24	Axpert MKS 3KP-24	Axpert MKS 3K-48	Axpert MKS 4K-48	Axpert MKS 5K-48	Axpert MKS 5KP-24
Rated Power	1000VA/1000W	1000VA/1000W	2000VA/2000W	3000VA/3000W	3000VA/2400W	3000VA/3000W	4000VA/4000W	5000VA/5000W	5000VA/4000W
Parallel Capability	No	No	No	No	Yes, 9 units	No	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%		90%	
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)								
Waveform	Pure sine wave								
BATTERY									
Battery Voltage	24 VDC	48 VDC	24 VDC	24 VDC	24 VDC	48 VDC	48 VDC		24 VDC
Floating Charge Voltage	27 VDC	54 VDC	27 VDC	27 VDC	Default: 24 VDC, Max: 30 VDC	54 VDC	54 VDC	54 VDC 54 VDC (optional 64VDC, please check with sales)	Default: 24 VDC, Max: 30 VDC
Overcharge Protection	31 VDC	62 VDC	31 VDC	31 VDC	30 VDC	62 VDC	60 VDC	60 VDC 66VDC (optional 66VDC, please check with sales)	30 VDC
SOLAR CHARGER & AC CHARGER									
Maximum PV Array Power	600W	900W	600W	600W	1000W	900W	4000W		2000W
MPPT Range @ Operating Voltage	30 VDC~66 VDC	60 VDC~88 VDC	30 VDC~66 VDC	30 VDC~66 VDC	30 VDC~80 VDC	60 VDC~88 VDC	60 VDC~115 VDC		30 VDC~115 VDC
Maximum PV Array Open Circuit Voltage	75VDC	102VDC	75VDC	75VDC	100VDC	102VDC	145 VDC		145 VDC
Maximum Solar Charge Current	25A	18A	25A	25A	40A	18A	80 A		80A
Maximum AC Charge Current	20A	15A	30A	30A	60A	15A	60 A		60A
Maximum Charge Current	45A	33A	55A	55A	100A	33A	140 A		140A
Maximum Efficiency	98%								
Standby Power Consumption	2 W								
PHYSICAL									
Dimension,DxWxH (mm)	100 x 272 x 355				100 x 272 x 385	100 x 272 x 355	120 x 295 x 468		180 x 310 x 475
Net Weight (kgs)	6.8		7.0	7.4	7.5	7.4	12.5	13.5	12.5
ENVIRONMENT									
Humidity	5% to 95% Relative Humidity (Non-condensing)								
Operating Temperature	0°C - 55°C								
Storage Temperature	-15°C - 60°C								

* There are charging current selection only available for 230VAC system. Product specifications are subject to change without further notice.

Axpert EX Off-Grid Inverter



- Pure sine wave inverter
- Enhance AC charger to 60A
- 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 with 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

Axpert EX Off-Grid Inverter Selection Guide

MODEL	Axpert EX 1.5K-12	Axpert EX 1.5K-24	Axpert EX 3K-24
Rated Power	1500VA/1200W		3000VA/2400W
INPUT			
Voltage	220/230/240 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)	220/230/240VAC \pm 5%		
Surge Power	3000VA		6000VA
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
Floating Charge Voltage	13.5 VDC		27 VDC
Overcharge Protection	16 VDC		32 VDC
SOLAR CHARGER & AC CHARGER			
Maximum PV Array Open Circuit Voltage	50 VDC		75 VDC
Maximum Solar Charge Current		50 A	
Maximum AC Charge Current		60A	
Maximum Charge Current		110A	
PHYSICAL			
Dimension, D x W x H (mm)	100 x 272 x 355		
Net Weight (kgs)	6.6		
ENVIRONMENT			
Humidity	5% to 95% Relative Humidity (Non-condensing)		
Operating Temperature	-20°C to 55°C		
Storage Temperature	-30°C to 60°C		

Product specifications are subject to change without further notice.

Axpert MKS Plus Off-Grid Inverter



- Pure sine wave inverter
- Output power factor 1
- 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 with 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
- Optional remote panel available

Axpert MKS Plus Off-Grid Inverter Selection Guide

MODEL	Axpert MKS 2K-24 Plus	Axpert MKS 2K-48 Plus	Axpert MKS 3K-24 Plus	Axpert MKS 3K-48 Plus
Rated Power	2000VA/2000W	2000VA/2000W	3000VA/3000W	3000VA/3000W
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	4000VA		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	48 VDC	24 VDC	48 VDC
Floating Charge Voltage	27 VDC	54 VDC	27 VDC	54 VDC
Overcharge Protection	31 VDC	62 VDC	31 VDC	62 VDC
SOLAR CHARGER & AC CHARGER				
Maximum PV Array Power	1500 W	3000 W	1500 W	3000 W
MPPT Range @ Operating Voltage	60~ 115 VDC	60 ~ 115 VDC	60~ 115 VDC	60 ~ 115 VDC
Maximum PV Array Open Circuit Voltage	145 VDC			
Maximum Solar Charge Current	60A			
Maximum AC Charge Current	20 A or 30 A (Selectable)	10 A or 15 A (Selectable)	20 A or 30 A (Selectable)	10 A or 15 A (Selectable)
Maximum Charge Current	90 A	75 A	90 A	75 A
Maximum Efficiency	98%			
Standby Power Consumption	2 W			
PHYSICAL				
Dimension, D x W x H (mm)	140 x 295 x 479			
Net Weight (kgs)	11.5			
ENVIRONMENT				
Humidity	5% to 95% Relative Humidity (Non-condensing)			
Operating Temperature	0°C - 55°C			
Storage Temperature	-15°C - 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 with mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Optional remote panel available
- Multiple communication : USB & SNMP
- Parallel operation with up to 9 units only available for 5KVA

Axpert Plus Duo/Tri Inverter/Charger Selection Guide

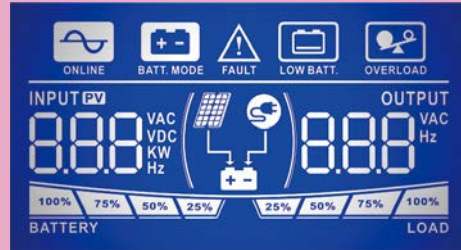
MODEL	Axpert Plus Duo 1.5K-12	Axpert Plus Duo 1.5K-48	Axpert Plus Duo 3K-24	Axpert Plus Duo 3K-48	Axpert Plus Duo 5K	Axpert Plus Tri 5K
Rated Power	1500VA/1200W		3000VA/2400W		5000VA/4000W	
INPUT						
Voltage	230 VAC					
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For 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	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.

Alfa Off-Grid Inverter

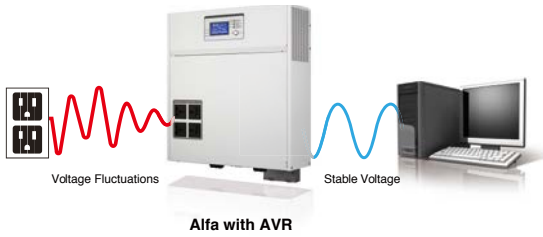


LCD Display Panel



• Boost and buck AVR

An inverter with built-in AVR provides clean and stable power by correcting the voltages which are under or over the average. Without the correction, the unstable voltage may cause damage to your precious electronic devices.



• Flexible mechanical design

The independent design of LCD panel allows the users to place the inverter on a table or on a wall.



• Built-in solar charger

Alfa series offers two kinds of solar charger: PWM and MPPT solar chargers.

Model	Solar charger Type	Main feature
Alfa-P	PWM	Cost effectiveness
Alfa-M	MPPT	High efficiency

• Suitable for home appliances and personal computers

Alfa inverter is designed to configure input voltage range to suit different appliances from electronic devices to sensitive computers.



• User-configurable setting via LCD panel

Alfa is designed to offer high flexibility for different operation. Via LCD interface, users can configure AC/solar charging priority, battery charging current, and acceptable input voltage range.



• Intelligent communication

Alfa offers intelligent slot perfect for SNMP or USB/RS-232 serial card. Integrated with monitoring software, it provides a smart monitoring system.

• Compatible with mains voltage or generator power

Alfa series can be connected to utility or generator and is a best choice for areas where utility is not available.

Alfa Off-Grid Inverter Selection Guide

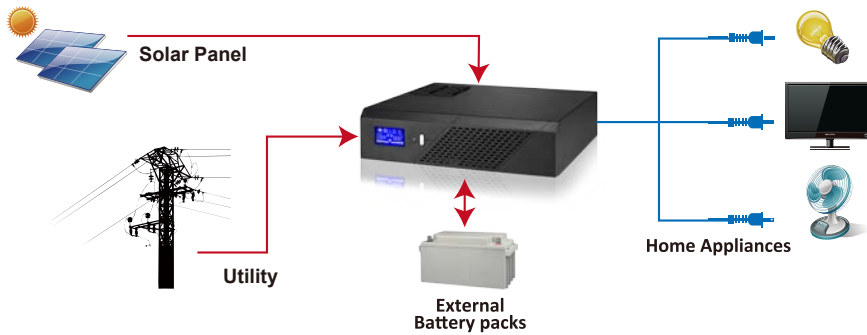
MODEL	Alfa-P3000-24	Alfa-M3000-24	Alfa-P5000-48	Alfa-M5000-48
Rated Power	3000VA/2400W		5000VA/4000W	
INPUT				
Voltage	230 VAC			
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)			
Frequency Range	50 Hz/60 Hz (Auto sensing)			
OUTPUT				
AC Voltage Regulation (Batt. Mode)	230VAC \pm 5%			
AC Voltage Regulation (AVR Mode)	230VAC \pm 10%			
Surge Power	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	24VDC		48VDC	
Floating Charge Voltage	27VDC		54VDC	
Overcharge Protection	32VDC		60VDC	
SOLAR CHARGER & AC CHARGER				
Solar Charger type	PWM	MPPT	PWM	MPPT
Maximum PV Array Open Circuit Voltage	75VDC	100VDC	105VDC	145VDC
Maximum Solar Charge Current	50A	40A	50A	80A
Maximum AC Charge Current	30 A		60 A	
Maximum Charge Current	80A	70A	110A	140A
PHYSICAL				
Dimension, D x W x H (mm)	340 x 380 x 88		420 x 397 x 120	
Net Weight (kgs)	12	13	16	17
ENVIRONMENT				
Humidity	5% to 95% Relative Humidity (Non-condensing)			
Operating Temperature	-10°C to 55°C			
Storage Temperature	-15°C to 60°C			

Product specifications are subject to change without further notice.

Lobo Solar



- Simulated sine wave inverter
- Built-in 50A PWM solar charger
- Wide input voltage range
- 10A or 20A standard AC charging current
- LCD display for comprehensive information
- Overload, short circuit and reverse polarity protection



Lobo Solar Inverter Selection Guide

MODEL	Lobo Solar 1.2K	Lobo Solar 2.4K
CAPACITY	1200 VA / 720 W	2400 VA / 1440 W
INPUT		
Voltage	230 VAC	
Input Voltage Range	90-280VAC	
Frequency Range	60Hz or 50 Hz (Auto sensing)	
OUTPUT		
Output voltage Regulation (Batt. Mode)	230 VAC ±10%	
Frequency Range (Batt. Mode)	60 Hz or 50 Hz ±1 Hz	
Transfer Time	20ms (Typical)	
Waveform (Batt. Mode)	Simulated Sine Wave	
BATTERY		
Battery Voltage	12VDC	24VDC
Acceptable Battery Type	Rechargeable lead-acid and deep discharge battery	
Acceptable Input Range for Charger	90~280 VAC	
DC Start Voltage	>11VDC	>22VDC
AC CHARGER		
Constant Current Charge Voltage	14.3VDC ± 2%	28.6VDC ± 2%
Floating Charge Voltage	13.7VDC ± 2%	27.4VDC ± 2%
Maximum Charge Current	10A or 20A	
SOLAR CHARGER		
Maximum PV Array Open Circuit Voltage	40 VDC	60 VDC
Operating Voltage Range	15~18 VDC	30~32 VDC
Maximum Solar Charge Current	50A	
PROTECTION		
Full Protection	Overload, short circuit and reverse polarity protection	
PHYSICAL		
Dimension, D x W x H (mm)	300 x 360 x 88	
Net Weight (kgs)	6.3	7.6
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.

Solar Inverter Selection Guide

	EnerSolar	InfiniSolar V		InfiniSolar V II
Power rating	3KW/5KW	1KW/2KW	3KW/4KW/5KW	1.5KW/3KW
Phase	Single Phase	Single Phase	Single Phase	Single Phase
Topology	On-grid	Hybrid	Hybrid	Hybrid
Output Waveform	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave
Feed to grid	●	●	●	●
Accept AC power source		●	●	●
Solar charger	3KW:1 x MPPT 5KW: 2 x MPPT	1 x MPPT	3KW/4KW: 1 x MPPT 5KW: 2 x MPPT	1 x MPPT
AC/Solar charger capability	N/A	140 A	3KW/4KW: 140A 5KW: 180A	1.5KW: 40A 3KW: 60A
Parallel capability			●	Only for 3KW
AC/Solar priority setting		●	●	●
Software	SolarPower	SolarPower	SolarPower	SolarPower

	InfiniSolar Super	InfiniSolar E	InfiniSolar	
Power rating	4KW	5.5KW	2KW/3KW/5KW	10KW
Phase	Single Phase	Single Phase	Single Phase	3-Phase
Topology	Hybrid	Hybrid	Hybrid	Hybrid
Output Waveform	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave
Feed to grid	●	●	●	●
Accept AC power source	●	●	●	●
Solar charger	1 x MPPT	2 x MPPT	2KW/3KW: 1 x MPPT 5KW: 2 x MPPT	
AC/Solar charger capability	80 A	60 A	3KW/4KW: 25A 5KW: 100A	200 A
Parallel capability	●		Only for 5KW	●
Battery independency	●	●	●	●
AC/Solar priority setting	●	●	●	●
Software	SolarPower	SolarPower	SolarPower	SolarPower

*This table is for reference only. For detailed charger size, please check model spec sheet directly.

Solar Inverter Selection Guide

	Axpert V	Axpert KS	Axpert MKS	Axpert EX	Axpert MEX
Power rating	3KVA/5KVA	1KVA-5KVA	1KVA-5KVA	1.5KVA / 3KVA	1.5KVA / 3KVA
Phase	Single phase	Single phase	Single phase	Single phase	Single phase
Topology	Off-grid	Off-grid	Off-grid	Off-grid	Off-grid
Output waveform	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave
Power Factor	0.8	1	1	0.8	0.8
Accept AC power source	●	●	●	●	●
Built-in AC charger*	VP 1K-2K: 20A V 3K-5K: 25A - 60A*	1K-3K: 20A-60A* 4K/5K: 60A	1K-3K: 15A-60A* 4K/5K: 60A	60A	60A
Solar charger	VP: PWM VM: MPPT	PWM	1 x MPPT	PWM	1 x MPPT
Solar charger capability*	VP: 50A VM: 40A or 60A VM II: 80A	50A	1K-3K: 18A-40A* 4K/5K: 80A	50A	40A
Parallel capability		Only for 3KP/4K/5K	Only for 3KP/4K/5K		
Input voltage selection	●	●	●	●	●
AC/solar priority setting	●	●	●	●	●
Software	WatchPower	WatchPower	WatchPower	WatchPower	WatchPower

	Axpert MKS Plus	Axpert Plus Duo/Tri	Alfa	Lobo Solar
Power rating	2KVA / 3KVA	1.5KVA-5KVA	3KVA / 5KVA	1.2KVA / 2.4KVA
Phase	Single phase	Single phase	Single phase	Single phase
Topology	Off-grid	Off-grid	Off-grid	Off-grid
Output waveform	Pure sine wave	Pure sine wave	Pure sine wave	Simulated sine wave
Power Factor	1	0.8	0.8	0.6
Built-in AVR			●	Optional
Accept AC power source	●	●	●	●
Built-in AC charger*	15A-30A*	60A	3K: 30A 5K: 60A	10A or 20A
Solar charger	1 x MPPT	1.5K / 3K: 2 x MPPT 5K: 3 x MPPT	Alfa-P: PWM Alfa-M: MPPT	PWM
Solar charger capability*	60A	1.5K / 3K: 40A-80A* 5K: 120A-180A*	3K: 40A-50A* 5K: 50A-80A*	50A
Parallel capability		only for 5K	only for 5K	
Input voltage selection	●	●	●	
AC/solar priority setting	●	●	●	
Software	WatchPower	WatchPower	WatchPower	

*This table is for reference only. For detailed charger size, please check model spec sheet directly.

Aspire



- Built-in MPPT solar charger
- Supports three-phase motor
- Built-in full protection and self-diagnosis
- Soft start function prevents water hammer effect and extends system lifecycle
- Comprehensive LEDs display real-time system status
- Remote monitoring through RS-485 status

Aspire Water Pump Solar Inverter Selection Guide

MODEL	Aspire 2.2KW	Aspire 7.5KW	Aspire 11KW
MAXIMUM PV ARRAY POWER	3500 W	12000 W	17600 W
RATED OUTPUT POWER	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)
PV INPUT (DC)			
Maximum DC Voltage	800 VDC		
Start-up Voltage	350 VDC		
Recommended MPPT Voltage Range	500 VDC ~ 600VDC		
Number of MPP Trackers	1		
OUTPUT			
Nominal Voltage	3 x 380/400/415/440 VAC		
Efficiency	> 97%		
Nominal Output Current	5.0 A	15 A	22 A
Motor Type	Three-phase asynchronous motor		
Frequency Precision	±0.2%		
PROTECTION			
Full Protection	Over-voltage, under-voltage, over-current, surge, over-temperature, short circuit protection		
PHYSICAL			
Dimension, D X W X H (mm)	110 x 230 x 342		
Net Weight (kgs)	5.5	6	6.5
IP Protection	IP20		
INTERACE			
Communication Port	RS-232/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 Card



Modbus Card



Modbus Box



Modbus Web Box

SNMP Web Card

- Allow control and monitoring of multiple inverters through RJ-45 network connection
- Real-time dynamic graphs of inverter data
- Warning notifications via audible alarm, broadcast, mobile messenger, e-mail and SNMP traps
- Historic data log stored in centralized PC database
- Simple firmware upgrade with one click
- Password security protection and remote access management
- Support optional environmental monitoring detector for temperature, humidity and smoke

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

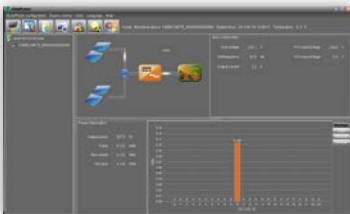
- Support to monitor off-grid inverter through modbus interface
- Implement MODBUS RTU protocol
- Integrated with WatchPower software
- Support Axpert series inverter

Modbus Web Box

- Embedded with web server
- Monitor and operate up to 247 modbus devices
- Ideal monitoring solution for medium-sized solar farm
- Support EnerSolar and InfiniSolar series inverters

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.

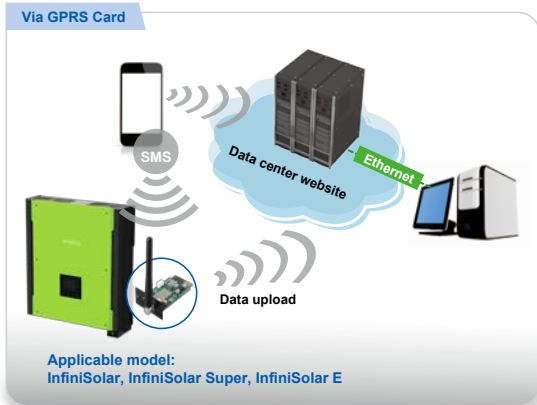
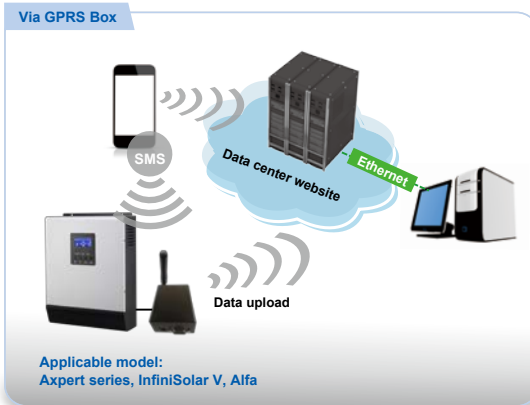
GPRS Card/Box (3G)



- 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 database
- Easy firmware upgrade through network

E T O S S E T T O

Access Your Inverter Power Generation Data Anywhere



GPRS Card Specification

MODEL	GPRS Card
Network Support	GPRS /GSM 850/900/ 1800/1900 • Multislot Class 12 • Full PBCCH support • Mobile Station Class B*
Network Protocol	TCP/IP, UDP, HTTP, HTTPS, IPv4, SSL
SIM Card	Micro card 12 x 15 mm
Communication Interface	Golden finger
Power Input	12 V
Power Consumption	2 watt (max.)
Firmware Upgrade	Via network
Operating Temperature	-10°C ~ 75°C
Operating Humidity	0 ~ 95%
Storage Temperature	-15°C ~ 85°C
Dimension, D x W x H (mm)	23 x 47 x 15

Product specifications are subject to change without further notice.

Axpert GS Inverter



- Pure sine wave inverter
- Isolation design between input and output for safety guarantee
- Lightweight, stainless steel, and anodised aluminium casing
- Low power consumption for energy saving
- Over-temperature, DC reverse polarity and short circuit protection
- Low/High battery alarm and protection

DC/AC inverter without charger



Axpert GS Inverter Selection Guide

MODEL	Axpert GS 2K	Axpert GS 3K
Rated Power	2000VA/1600W	3000VA/2400W
INPUT		
Nominal DC Voltage	24 VDC	
Cold Start Voltage	23 VDC	
Acceptable Voltage Range	21 VDC ~ 29 VDC	
Low DC Warning Voltage		
@ load <20%	22.0 VDC	
@ 20% ≤ load < 50%	21.4 VDC	
@ load ≥ 50%	20.2 VDC	
Low DC Warning Return Voltage		
@ load <20%	23.0 VDC	
@ 20% ≤ load < 50%	22.4 VDC	
@ load ≥ 50%	21.2 VDC	
Low DC Cut-off Voltage		
@ load <20%	21.0 VDC	
@ 20% ≤ load < 50%	20.4 VDC	
@ load ≥ 50%	19.2 VDC	
Efficiency	> 90 %	
No Load Power Consumption	< 20 W	
Saving Mode Power Consumption	< 10 W	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%	
Surge Power	4000VA	6000VA
Waveform	Pure sine wave	
PHYSICAL		
Dimension, D x W x H (mm)	82 x 232 x 369	
Net Weight (kgs)	4.3	4.3
ENVIRONMENT		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	0°C - 55°C	
Storage Temperature	-15°C - 60°C	

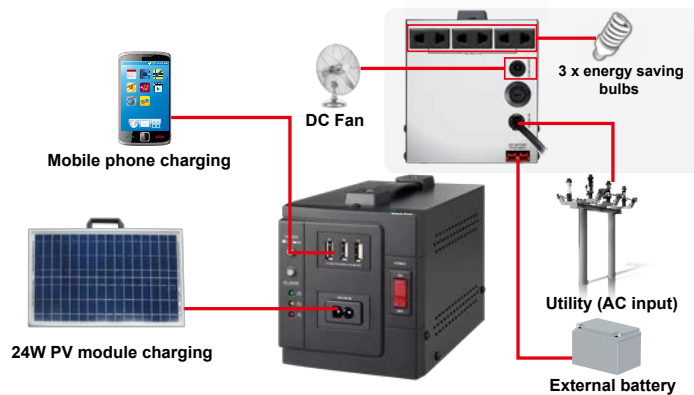
Product specifications are subject to change without further notice.

SolaPalm



- 70W DC UPS
- 3 sets of DC-powered outlets for energy saving bulbs
- 1 x 12V DC output connector for DC fan
- Accepts either PWM solar charger or AC charger
- Optional 3 x 5V USB charger ports for mobile phones
- Off-mode charging
- Overload protection in battery mode and short circuit protection
- 3-step charging design to extend battery life
- Optional lamp holder with 2m cable

Devices:



SolaPalm Lighting Solution Specification

MODEL		SolaPalm 70
CAPACITY		70 W
PV INPUT		
Maximum PV Array Open Circuit Voltage		30 VDC
Maximum Solar Charging Current		2 A
AC INPUT		
Nominal Voltage		230 VAC
Nominal Frequency		50/60 Hz (Auto sensing)
OUTPUT		
2-pin Sockets	Output Voltage (AC Mode)	230 VDC
	Output Voltage (Batt. Mode)	160-230 VDC \pm 10%
	Waveform (Batt. Mode)	DC Output
DC Connector		12VDC 2A x 1pcs
USB Charger (optional)		5VDC 1A x 3pcs
BATTERY & CHARGER		
Battery Type and Numbers		12V 7Ah x 1 (Optional external battery)
Battery Voltage		12 VDC
Floating Voltage		13.7V \pm 1.5%
Shutdown Voltage		11V
Typical Recharge Time		8 hours recover to 90% capacity
Total Charging Current*		1 A or 2 A (Selectable)
PROTECTION		
Full Protection		Overload Protection and short circuit protection
PHYSICAL		
Dimension, D x W x H (mm)		229 x 110 x 123.5
Net Weight (kgs)		3.8
ENVIRONMENT		
Humidity		0-90 % RH @ 0- 40°C (Non-condensing)
Noise Level		Less than 40dB

*Total charging current includes solar charger and AC charger.
Product specifications are subject to change without further notice.

SolaLight



- 3W solar panel included
- Built-in Ultra-light LED
- 2 sets of 12V LED Bulbs included
- Built-in USB charger port for mobile device
- Built-in Lithium-ion Battery (>4000mAh)

Package Contents:



A 3W Solar Panel

B Power Pack

C LED Bulb

Running Time	
	= 12hrs
	= 6hrs
	= 12hrs

Solalight Lighting Solution Specification

MODEL	SolaLight
Power Consumption by LED Bulb	1.2W/each
Solar Input Range	5-8 VDC
LED DC Output	12VDC/0.5A
USB Output	5VDC 1A
INDICATORS	
Battery Full	Green LED lighting
Battery Charging	Red LED lighting
Low Battery	Green LED flashing
BATTERY & CHARGER	
Battery Type	Lithium-ion
Battery Voltage	3.6 VDC
Constant Charging Voltage	4.2 VDC
Shutdown Voltage	3 VDC
Charging Current	Via Solar Panel: 0.5A Via Micro USB: 1A
Typical Charging Time	Via Solar Panel: 9 hours Via Micro USB: 4 hours
ENVIRONMENT	
Operating Temperature	0- 40°C (Non-condensing)
Relative Humidity	0-90 %

Product specifications are subject to change without further notice.

