

Omega Power

Technologies (Pvt) Limited



POWERING
BUSINESS
WORLD WIDE



CATALOGUE

INTRODUCTION

Omega Power is a leading consultant, manufacturer and installer of renewable technology products in Pakistan.

Omega Power delivers a wide range of services which includes: Project feasibility, Alternate Energy Solutions, Technical consultancy, Site surveys, Support Services, Logistics, Training's, Power and Renewable Energy Services, Technology and Venture Business Segments, and demonstrates itself as a technology-driven Engineering, Procurement and Construction (EPC) company.

Omega Power aims to become major contributor to bring solar energy a competitive energy source in Pakistan.

Omega Power develops, Integrates, and delivers the World's most reliable and cost-effective solar energy solutions In Pakistan and Middle East. Omega Power has always sturdily focused and successfully completed numerous Solar power projects. All these projects have been carried out and accomplished satisfactorily; adhering to quality control.





WHAT WE CAN DO FOR YOU

Small Solar Home System Off-Grid (SHS Off-Grid)

DC for Individual household. *(10 W-150W)*

Small Solar Home System Off-Grid (SHS Off-Grid shared) AC for community based shared system. *(50 W-500W)*

Solar Power System, Off-Grid (SPS Off-Grid). *(1kw-100kw)*

Solar Water Pumps and Solar Tube Wells. Solar Hybrid Solutions for conventional Tube Wells.

Solar Street Lights.

Small Scale Solar Farms. *(1 MW to 10 MW)*

Grid Tie or Grid Feeding Medium Scale Solar Farms.

Grid tied or Grid Feeding Large Scale Solar Farms.

Stock / Inventory

Distribution network

Ware house (Nationwide)

Highway Solar Lights

Power generation Products / Alternative Energy Products (Wind Turbine,Solar etc)





AXPERT VMII

OFF GRID HYBRID SOLAR INVERTER



SOLAR INVERTER MODEL & SPECIFICATION

FEATURES

- Pure sine waves solar inverter.
- Output power factor 1.
- High PV input voltage battery.
- Inverter running without battery.
- Pure sine waves solar inverter.
- Built-in 80A MPPT solar charger.
- Battery equalization function to optimizer battery performance & extent lifecycle.
- Built-in anti dust kit for harsh environment.

APPLICATIONS:



LIGHTS



TV



FANS



MOBILE
CHARGER

RATED POWER	AXPERT VMII 3000VA / 3000W	AXPERT VMII 5000VA / 5000W
INPUT		
Voltage	230VAC + 5%	
Selected Voltage Range	170-280 VAC (For Personal Computers) / 90-280 (Home Appliances)	
Frequency Range	50 Hz / 60 Hz (Auto Sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC + 5%	
Surge Power	6000 VA	10000 VA
Efficiency (Peak)	90% - 93%	
Transfer Time	10ms (For Pers. Computers) / 20ms (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 Typer	MPPT	MPPT
Maximum PV Array Open Circuit Voltage	500 VDC	500 VDC
Maximum PV Array Power	4000 W	4000 W
MPP Range @ Operating Voltage	120-450 VDC	120-450 VDC
Maximum Solar Charge Current	80 A	80 A
Maximum AC CHarge Current	30 A	60 A
Maximum Efficiency	80 A	80 A
PHYSICAL		
Dimension, D x W x H (mm)	100 x 300 x 440	100 x 300 x 440
Net Weight (kgs)	09	10
OPERATING 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 prior notice.



ZERO TRANSFER TIME



AXPERT KING SERIES

AXPERT KING SERIES MODEL & SPECIFICATION

FEATURES

- 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)
- Configurable AC/PV output usage timer and prioritization
- Optional parallel operation up to 9 units

APPLICATIONS:



LIGHTS



TV



FANS



MOBILE
CHARGER



SERVER

Model	Expert King 3K	Expert 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	230VAC \pm 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
MPPT 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 300 x 512	
Net Weight (kgs)	11.5	12.2
Communication Interface	USB/RS232/RS485/Bluetooth/Dry - contact	
OPERATING 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 VM III

DETECHABLE LED DISPLAY
ANDROID APP (OPTION)

AXPERT VM III MODEL & SPECIFICATION

FEATURES

- Detachable LCD control module with multiple communications
- Built-in Bluetooth for mobile monitoring (Android App is available)
- Supports USB On-the-Go function or Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Replaceable fan design for ease of maintenance
- Supply load from Grid or PV, even battery is not available
- 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
- Auto restart while AC is recovering
- Cold start function

APPLICATIONS:



LIGHTS



TV



FANS



MOBILE
CHARGER

AXPERT VM III-1500-24	AXPERT VM III-3000		AXPERT VM III 5000-48
Rated Power	1500VA/1500W	3000VA/3000W	5000VA/5000W
Parallel Capability	Up to 9 units		Up to 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	230VAC \pm 5%		
Surge Power	3000VA	6000VA	10000VA
Efficiency (Peak)	90%~93 %		63 VDC
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	33 VDC		63 VDC
SOLAR CHARGER & AC CHARGER			
Solar Charger Type	MPPT		
Maximum PV Array Power	2000 W		4000 W
MPPT Range @ Operating Voltage	120 ~ 380 VDC		120~450VDC
Maximum PV Array Open Circuit Voltage	400 VDC		500 VDC
Maximum Solar Charge Current	60 A		80 A
Maximum AC Charge Current	40 A		60 A
Maximum Charge Current	60 A		80 A
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 - 50°C		
Storage Temperature	-15°C - 60°C		

Product specifications are subject to change without further notice.



AXPERT MVS SERIES



AXPERT MVS MODEL & SPECIFICATION

FEATURES

- 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 with mains voltage or generator power
- Auto restart while AC is recovering o Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- Optional anti-dusk kit

APPLICATIONS:



LIGHTS



TV



FANS



MOBILE
CHARGER

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 PLUS	AXPERT VP 1000-12	AXPERT VP 5000-48	AXPERT VM 5000-48
RATED POWER	2000VA/2000W		2000VA/2000W		3000VA/3000W		3000VA/3000W		
INPUT									
Voltage	230 VAC								
Selectable Voltage Ranges	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)								
Frequency Ranges	50 Hz/60 Hz (Auto sensing)								
OUTPUT									
AC Voltage Regulation (Batt. Mode)	230VAC \pm 5%								
Surge Power	4000VA		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	
Max. PV Array Open Circuit Voltage	55VDC	102VDC	80VDC	102VDC	80VDC	102VDC	145VDC	105VDC	145VDC
Max. 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	17~80VDC	N/A	30~80VDC	N/A	30-80 VDC	30-115 VDC	N/A	60-115 VDC
Max. Solar Charge Current	50 A	40 A	50 A	40 A	50 A	40 A	60 A	50 A	60 A
Max. AC Charge Current	20 A	20 A	20 A	25 A	25 A	25 A	60 A	60 A	60 A
Max. 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 225x 320			100 x 285 x 334			100 x 300 x 440		
Net Weight (kgs)	4.4	4.4	5.0	5.0	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.



NEW MODEL



AXPERT MKS II



RUN WITHOUT BATTERY
AND PARALLEL UPTO 9 UNITS

AXPERT MKS MODEL & SPECIFICATION

FEATURES

- 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

APPLICATIONS:



LIGHTS



TV



FANS



MOBILE
CHARGER

MODEL	Axpert MKS II 5000-48
Rated Power	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%
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
MPPT Range @ Operating Voltage	120 ~ 430 VDC
Maximum PV Array Open Circuit Voltage	450 VDC
Maximum Solar Charge Current	80A
Maximum AC Charge Current	80A
Maximum Charge Current	80A
PHYSICAL	
Dimension, D X W X H (mm)	120 x 295 x468
Net Weight (kgs)	11.0
Communication Interface	USB and RS232
OPERATING ENVIRONMENT	
Humidity	5% to 95% Relative Humidity(Non-condensing)
Operating Temperature	-10° to 50°
Storage Temperature	-15° to 60°

Product specifications are subject to change without further notice.



NEW PRODUCT



INFINI VII SOLAR

INFINI SOLAR MODEL & SPECIFICATION

SMALL 3-PHASE SERIES INVERTOR

FEATURES

- 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

APPLICATIONS:



LIGHTS



TV



FANS



MOBILE
CHARGER

MODEL	INFINISOLAR V II 3P-6KW TOWER	INFINISOLAR VII 3P-9KW TOWER
PHASE	3-phase in / 3-phase out	
Max. PV Array Power	9000W	12000W
Rated Output Power	6000W	9000W
Maximum PV Array Open Circuit Voltage	450 VDC	450 VDC
MPPT Range @ Operating Voltage	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
MPP Tracker Number	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
Power Factor	> 0.99	
EFFICIENCY		
Maximum Conversion Efficiency (DC/AC)	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
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	220/230/240 VAC per phase	4000 W
Output Waveform	Pure sine wave	60~115VDC
Efficiency (DC to AC)	93%	80 A
BATTERY & CHARGER		
Nominal DC Voltage 48 VDC	48 VDC	140 A
Maximum Solar Charge Current 180 A	180 A	
Maximum AC Charge Current 180 A	180 A	
Maximum Charge Current	180 A	
GENERAL		
PHYSICAL		
Dimension, D x W x H (mm) 588 x 260 x 655	588 x 260 x 655	
Net Weight (kgs)	0°C - 55°C	
INTERFACE		
Communication Ports		
ENVIRONMENT	3000VA/3000W	5000VA/5000W
Humidity	Up to 9 units	Up to 9 units
Operating Temperature		

Product specifications are subject to change without further notice.



INFINI V SERIES

NET METERING ON



INFINI V SERIES MODEL & SPECIFICATION

FEATURES

- 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 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 6 units only for 3K/4K/5K models

APPLICATIONS:



LIGHTS



TV



FANS



MOBILE
CHARGER

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	140 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	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.



NEW MODEL



INIFINISOLAR TX-PA 30KW

THREE PHASE HYBRID INVERTER WITH OUTPUT TRANSFORMER MODEL & SPECIFICATION

FEATURES

- 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

APPLICATIONS:



LIGHTS



TV



FANS



MOBILE
CHARGER

MODEL	InfiniSolar TX-PA 30KW
MAXIMUM PV INPUT POWER	45KW
RATED OUTPUT POWER	30KW
MAXIMUM CHARGING POWER	30KW
Unit price(20181209)	US\$3,950.00
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage	720 VDC
Maximum DC Voltage	960 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	1
Maximum Input Current	72 A
GRID/UTILITY OUTPUT (AC)	
Nominal Output Voltage	230 VAC* (P-N) / 400 VAC (P-P)
Output Voltage Range	195.5 - 253 VAC per phase
Output Frequency Range	49 ~ 51 Hz or 59.3 ~ 60.5 Hz
Nominal Output Current	43.5 A per phase
Power Factor	1
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	96%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage	150 - 170 VAC per phase
Auto Restart Voltage	180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	43.5 A per phase
PV INPUT (DC)	
Maximum DC Power	45KW
Maximum DC Voltage	960 VDC
MPP Voltage Range	460 VDC ~ 900 VDC
Number of MPP Trackers	1
Maximum Input Current	72 A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Frequency	50 Hz / 60 Hz (auto sensing)
Output Waveform	Pure sine wave
Efficiency (DC to AC)	>91%
HYBRID OPERATION	
PV INPUT (DC)	
Maximum DC Power	45KW
Nominal DC Voltage	720 VDC
Maximum DC Voltage	960 VDC
Start-up Voltage / Initial Feeding Voltage	500 VDC / 550 VDC
MPP Voltage Range	460 VDC ~ 900 VDC
Number of MPP Trackers	1
Maximum Input Current	72 A
GRID/UTILITY OUTPUT (AC)	
Nominal Output Voltage	230 VAC* (P-N) / 400 VAC (P-P)
Output Voltage Range	195.5 - 253 VAC per phase
Output Frequency Range	49 ~ 51 Hz or 59.3 ~ 60.5 Hz
Nominal Output Current	43.5 A per phase
Power Factor	1
AC INPUT	
AC Start-up Voltage	150 - 170 VAC per phase
Auto Restart Voltage	180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	43.5 A per phase
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Frequency	50 Hz / 60 Hz (auto sensing)
Output Waveform	Pure sine wave
Efficiency (DC to AC)	>91%
BATTERY & CHARGER	
Nominal Battery Voltage/Charging Voltage Range	384 VDC / 384 VDC ~ 480 VDC
Maximum Charging Current	80 A
GENERAL	
PHYSICAL	
Dimension, D X W X H (mm)	430 x 715 x 1021
Net Weight (kgs)	223
INTERACE	
Communication Port	RS-232/USB
Intelligent Slot	Optional SNMP, GPRS, WIFI, Modbus cards available
ENVIRONMENT	
Humidity	0 ~ 90% RH (No 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

Product specifications are subject to change without further notice.



NEW UPGRADE MODEL

SOLAR HOME INVERTER RED BOX & GREEN BOX



SOLAR HOME INVERTER MODEL & SPECIFICATION

ECONOMY SERIES

FEATURES

- Build in 50A Solar Charger
- 16 Functions Model
- Multi Setting - PV/AC Priority
- Wide Input Voltage Range
- Hi-Speed Synch Conversion
- User Friendly Display Mode
- Intelligent - No Load Auto Energy Save
- Strong Metallic Body
- Adjustable Charging Mode

APPLICATIONS:



LIGHTS



TV



FANS



MOBILE
CHARGER

MODEL	GREEN BOX 1.2KVA	RED BOX 2.4K
Capacity	1200 VA / 720 W	2400 VA / 1440 W
INPUT		
Voltage	230 VAC	
Voltage Range	90 - 280 VAC	
Frequency Range	50 Hz / 60 Hz (Auto Sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC + 5%	
Transfer Time	20 ms (typical)	
Waveform (Batt. Mode)	Simulated Sine Wave	
BATTERY		
Battery Voltage	12 VDC	24 VDC
Floating Charge Voltage	13.7 VDC \pm 2% ³	27.4 VDC \pm 2%
Low Battery Alarm Voltage	10.2 VDC \pm 2%	20.4 VDC \pm 2%
Shutdown Voltage	9.9 VDC \pm 2%	19.8 VDC \pm 2%
Overcharge Protection	15.0 VDC \pm 2%	30.0 VDC \pm 2%
Maximum Charge Current	10 A or 20 A (Selectable)	

MADE BY VOLTRONIC

Product specifications are subject to change without prior notice.



JFY SPRING SERIES SOLAR PUMPING INVERTER



JFY SPRING SERIES SOLAR PUMPING INVERTER MODEL & SPECIFICATION

FEATURES

- Designed dedicated for solar pump, and compatible with various motor types have excellent performance
- IP 65 protection level, inverter integrates the combiner box which contains the PV dedicated DC switch, SPD, fuse and other optional accessories
- Plenty of communication interfaces, such as RS485/CAN/GPRS (optional) the running and status can be checked remotely
- Inverter allows using grid or diesel generator as backup power supply, 24-hour running
- Natural cooling design, IP65 high protection level guarantees inverter to be applied under all kinds of outdoor strict environment

APPLICATIONS:



LIGHTS



TV



FANS



MOBILE
CHARGER

- Using advanced dynamic VI MPPT technique ; fast respond and good operating stability
- Main circuit adopts intelligent power module, high reliability, conversion efficiency reach to 98%
- Advanced IGBT module, the high and low water position detection control circuit optional
- Full automatic running; no need manual duty the pump speed range can be set freely according to the system conditions so that guarantee the running time as long as possible
- The inverter outer casing is solid and durable, compact size, nice appearance; friendly UI, user can check the real time info and historical info via the LCD display located in the front board can store the running data up to 8 years
- Inverter has perfect running protection mechanism, such as output short-circuit protection, IGBT over-current protection, input over/under voltage protection, overload protection, module over-temp protection, grounding protection and so on

380V Triphase output series 3000W~22kW												
Inverter Model	MAX Input String Number	Start Voltage (Vdc)	MAX DC Input Voltage (Vdc)	Recomm MPPT Voltage Range (Vdc)	Rated Output Power (W)	MAX Output Current (A)	Output Frequency (Hz)	Protection Level	Weight (kg)	Pack Size (mm)		
										Length	Width	Height
SPRING 3000	2	250	900	500-680	3000	8	0-50/60	IP65	11.5	478	325	155
SPRING 3000-A	2	250	900	500-680	3000	8	0-50/60	IP65	12	478	325	155
SPRING 4000	2	250	900	500-680	4000	10	0-50/60	IP65	11.5	478	325	155
SPRING 4000-A	2	250	900	500-680	4000	10	0-50/60	IP65	12	478	325	155
SPRING 5500	2	250	900	500-680	5500	13	0-50/60	IP65	11.5	478	325	155
SPRING 5500-A	2	250	900	500-680	5500	13	0-50/60	IP65	12	478	325	155
SPRING 7500	3	250	900	500-680	7500	18	0-50/60	IP65	13.5	528	346	166
SPRING 7500-A	3	250	900	500-680	7500	18	0-50/60	IP65	14	528	346	166
SPRING 9200	3	250	900	500-680	9200	21	0-50/60	IP65	13.5	528	346	166
SPRING 9200-A	3	250	900	500-680	9200	21	0-50/60	IP65	14	528	346	166
SPRING 11K	3	250	900	500-680	11000	24	0-50/60	IP65	13.5	528	346	166
SPRING 11K-A	3	250	900	500-680	11000	24	0-50/60	IP65	14	528	346	166
SPRING 13K	6	250	900	500-680	13000	28	0-50/60	IP65	22.5	583	405	190
SPRING 13K-A	6	250	900	500-680	13000	28	0-50/60	IP65	22.5	583	405	190
SPRING 15K	6	250	900	500-680	15000	30	0-50/60	IP65	22.5	583	405	190
SPRING 15K-A	6	250	900	500-680	15000	30	0-50/60	IP65	22.5	583	405	190
SPRING 18K5	6	250	900	500-680	18500	39	0-50/60	IP65	22.5	583	405	190
SPRING 18K5-A	6	250	900	500-680	18500	39	0-50/60	IP65	22.5	583	405	190
SPRING 22K	6	250	900	500-680	22000	45	0-50/60	IP65	22.5	583	405	190
SPRING 22K-A	6	250	900	500-680	22000	45	0-50/60	IP65	22.5	583	405	190

Product specifications are subject to change without prior notice.



SOLIS-3P(5-20)K-4G

SOLIS-3P(5-20)K-4G SOLIS 4G THREE PHASE INVERTERS MODEL & SPECIFICATION

FEATURES

- Solis 3P 4G Three Phase Range
160V-850V MPPT voltage range-ultra low startup
- Dual MPPT design with precise MPPT algorithm
THDi<1.5%, low harmonic distortion against grid
- Over 98.7% Max. efficiency
Multiple protections levels
- RS485, WiFi/LAN/GPRS (optional) interface
WiFi monitoring available-Android and Apple App store available
- 5 years standard warranty, 20 years optional upgrade

APPLICATIONS:



LIGHTS



TV



FANS



MOBILE
CHARGER

Model Name	Solis-3P5K-4G	Solis-3P6K-4G	Solis-3P8K-4G	Solis-3P9K-4G	Solis-3P10K-4G	Solis-3P12K-4G	Solis-3P15K-4G	Solis-3P17K-4G	Solis-3P20K-4G	
Input DC										
Max. DC input power(kW)	6	7.2	9.6	10.8	12	14.5	18	20.4	24	
Max. DC input voltage(V)					1000					
Start-up voltage(V)					180					
MPPT voltage range(V)					160-850					
Max. input current(A/B)					11A+11A			22A+22A		
MPPT number/Max input strings number					2/A:1; B:1			2/A:2; B:2		
Output AC										
Rated output power(kW)	5	6	8	9	10	12	15	17	20	
Max. apparent output power(kVA)	5.5	6.6	8.8	9.9	11	13.2	16.5	18.7	22	
Max. output power(kW)	5.5	6.6	8.8	9.9	11	13.2	16.5	18.7	22	
Rated grid voltage(V)					400					
Rated grid frequency(Hz)					50/60					
Grid frequency range(Hz)					47-52 or 57-62					
Operation phase					Three Phase					
Rated grid output current(A)	7.2	8.7	11.5	13.0	14.4	17.3	21.7	24.6	28.9	
Max. output current(A)	7.9	9.5	12.7	14.2	15.9	19.1	23.8	27	31.8	
Power Factor (at rated output power)					0.8leading ... 0.8lagging					
THDi (at rated output power)					<1.5%					
DC injection current					<0.5%In					
Efficiency										
Max. efficiency	98.3%				98.7%					
EU efficiency	97.8%				98.1%					
MPP Tefficiency					>99.5%					
Protection										
DC reverse-polarity protection					Yes					
Short circuit protection					Yes					
Output over current protection					Yes					
Output over voltage protection					Yes					
Insulation resistance monitoring					Yes					
Residual current detection					Yes					
Surge protection					Yes					
Grid monitoring					Yes					
Islanding protection					Yes					
Temperature protection					Yes					
Integrated DC switch					Optional					
General Data										
Dimensions(mm)					310W*563H*219D					
Weight (kg)	13.6							18.9	19.8	
Topology					Transformerless					
Self consumption (night)					<1W (Night)					
Operating ambient temperature range					-25~60°C					
Relative humidity					0~100%					
Ingress protection					IP65					
Noise emission(typical)					<30 dBA					
Cooling concept					Natural convection			Natural convection+Redundancy Fan		
Max. operation altitude					4000m					
Designed lifetime					>20 years					
Grid connection standard					EN50438, G59/3, AS4777, VDE0126-1-1, IEC61727, G98 G99					
Safety/EMC standard					IEC62109-1/-2, AS3100, EN61000-6-1, EN61000-6-3					
Features										
DC connection					MC4					
AC connection					Terminal connectors					
Display					LCD, 2x20 Z.					
Communication connections					4 pins RS485 connector					
Monitoring					WiFi or GPRS					
Warranty					5 years (extend to 20 years)					



NETMETERING ON



INFINI SOLAR
3KW, 10KW

INFINI SOLAR INVERTOR 3 IN 1 MODEL & SPECIFICATION

SNMP CARD OPTION

FEATURES

- Designed dedicated for solar pump, and compatible with various motor types have excellent performance
- IP 65 protection level, inverter integrates the combiner box which contains the PV dedicated DC switch, SPD, fuse and other optional accessories
- Plenty of communication interfaces, such as RS485/CAN/GPRS (optional) the running and status can be checked remotely
- Inverter allows using grid or diesel generator as backup power supply, 24-hour running
- Natural cooling design, IP65 high protection level guarantees inverter to be applied under all kinds of outdoor strict environment

APPLICATIONS:



LIGHTS



TV



FANS

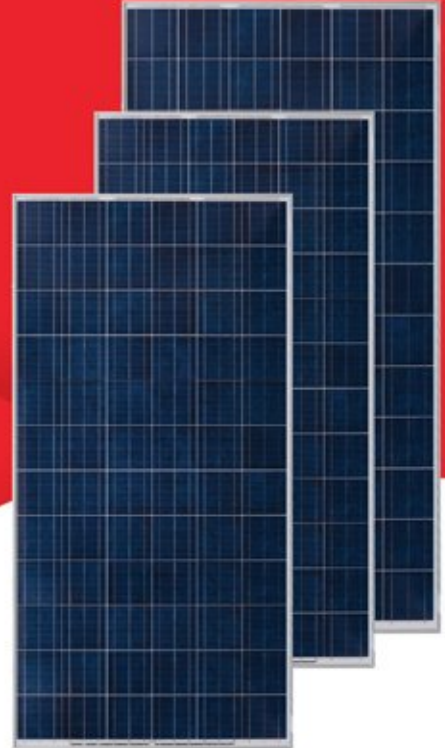


MOBILE
CHARGER

Model	InfiniSolar Plus 3KW		InfiniSolar 3P 10KW
PHASE	1-phase in/1-phase out		3-phase in/3-phase out
Max. PV INPUT POWER	4500W		14850W
Rated Output Power	3000W		10000W
Maximum Charging Power	1200 W		9600 W
GRID-TIE OPERATION			
PV INPUT (DC)			
Nominal DC Voltage/Max. DC Voltage	360 VDC/500 VDC		720 VDC/900 VDC
Start-up Voltage/Initial Feeding Voltage	116 VDC/150 VDC		320 VDC/350 VDC
MPP Voltage Range	250 VDC~450 VDC		400 VDC~800 VDC
Number of MPP Trackers/ Maximum Input Current	1/1x18A		2/2x18.6A
GRID OUTPUT (AC)			
Nominal Output Voltage	208/220/230/240 VAC		230 VAC (P-N)/ 400 VAC (P-P)
Output Voltage Range	184 -265 VAC*		184 - 265 VAC* per phase
Nominal Output Current	13A		14.5A per phase
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		120-140 VAC per phase/ 180 VAC per phase
Acceptable Input Voltage Range	170-280 VAC		170-280 VAC per phase
Max. AC Input Current	30A		40A
PV INPUT (DC)			
Max. DC Voltage	500 VDC		900 VDC
MPP Voltage Range	250 VDC~450 VDC		400 VDC~800 VDC
Number of MPP Trackers/Max. Input Current	1/1x18A		2/2x18.6A
BATTERY Mode Output (AC)			
Nominal Output Voltage	202/208/220/230/240 VAC		230 VAC (P-N)/400 VAC (P-P)
Output Waveform	Pure Sinewave		
Efficiency (DC to AC)	93%		91%
HYBRID OPERATION			
PV INPUT (DC)			
Nominal DC Voltage/Max. DC Voltage	360 VDC/500 VDC		720 VDC/ 900 VDC
Start-up Voltage/Initial Feeding Voltage	116 VDC/ 150 VDC		320 VDC/ 350 VDC
MPP Voltage Range	250 VDC~450 VDC		400 VDC~800 VDC
Number of MPP Trackers/Max. Input Current	1/1x18A		2/2x18.6A
GRID OUTOUT (AC)			
Nominal Output Voltage	202/208/220/230/240 VAC		230 VAC (P-N)/ 400 VAC (P-P)
Output Voltage Range	184-264.5 VAC*		184-264.5 VAC* per phase
Nominal Output Current	13A		14.5A per phase
AC INPUT			
AC Start-up Voltage/Auto Restart Voltage	120-140 VAC/180 VAC		120-140 VAC per phase/ 180 VAC per phase
Acceptable Input Voltage Range	170-280 VAC		170-280 VAC per phase
Max. AC Input Current	30A		40A
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	202/208/220/230/240 VAC		230 VAC (P-N)/ 400 VAC(P-P)
Efficiency (DC to AC)	93%		91%
BATTERY & CHARGER			
Nominal DC Voltage	48 VDC		
Max. Charging Current	Default 25A, 5A-25A (Adjustable)		Default 60A, 10A-200A (Adjustable)
GENERAL			
PHYSICAL			
Dimension, D x W x H (mm)	107 x 438 x 480		167.5 x 500 x 622
Net weight (kgs)	15.5		45
INTERFACE			
Communication Port	RS-232/USB		RS-232/USB and CAN Interface
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 100m when altitude is over 1000m.
Product specifications are subject to change without further notice.

Product specifications are subject to change without prior notice.



CSUN335 72P MODEL & SPECIFICATION

FEATURES

- China Sunergy (Nanjing) Co., Ltd is one of the leading solar cell & module manufacturers in the world. With full utilization of our manufacturing campuses in China, Turkey, Vietnam, South Korea etc, we research, design, manufacture and distribute high quality and high efficiency solar cells & Modules for the global market.
- CSUNPOWER is the group member to mainly distribute high quality CSUN solar cells & modules in overseas market and provide our customer turnkey solution services. Till the end of 2017, we already delivered more than 10GW solar modules to 50+countries for residential, commercial and utility-scale PV plants.

ELECTRICAL CHARACTERISTICS AT STANDARD TEST CONDITIONS (STC)

Module Type	CSUN 335-72P	CSUN 330-72P	CSUN 325-72P	CSUN 320-72P
Maximum Power - P _{mpp} (W)	335	330	325	320
Positive Power Tolerance	0~3%	0~3%	0~3%	0~3%
Open Circuit Voltage - Voc (V)	46.4	46.2	46	45.9
Short Circuit Current - Isc (A)	9.36	9.27	9.19	9.1
Maximum Power Voltage - V _{mpp} (V)	37.8	37.6	37.4	37.3
Maximum Power Current - I _{mpp} (A)	8.86	8.77	8.68	8.57
Module Efficiency				

Standard test conditions (STC): irradiance 1000W/m²; AM 1.5G; cell temperature 25°C. Measuring uncertainty of power is within ±3%. Certified in accordance with IEC 61215, IEC 61730-1/2 and UL 1703.

ELECTRICAL CHARACTERISTICS AT NOMINAL OPERATING CELL TEMPERATURE (NOCT)

Module Type	CSUN 335-72P	CSUN 330-72P	CSUN 325-72P	CSUN 320-72P
Maximum Power - P _{mpp} (W)	248	244	241	234
Open Circuit Voltage - Voc (V)	43.2	43	42.7	42.5
Short Circuit Current - Isc (A)	7.56	7.48	7.46	7.35
Maximum Power Voltage - V _{mpp} (V)	35.3	35	34.7	34.6
Maximum Power Current - I _{mpp} (A)	7.04	6.97	6.85	6.76

Nominal operating cell temperature (NOCT): irradiance 800W/m²; wind speed 1 m/s; module temperature 45°C; ambient temperature 20°C. Measuring uncertainty of power is within ±3%. Certified in accordance with IEC 61215, IEC 61730-1/2 and UL 1703.

TEMPERATURE CHARACTERISTICS

Voltage Temperature	-0.292%/K
Coefficient	+0.045%/K
Current Temperature	-0.408%/K
Coefficient	

MAXIMUM RATINGS

Maximum System	1000
Voltage (V)	20
Series Fuse Rating (A)	27
Reverse Current	

MECHANICAL CHARACTERISTICS

Dimensions (L*W*H)	1956 x 992 x 40 mm
Weight	22.1 kg
Frame	Anodized aluminum profile
Front Glass	Toughened low iron glass, 3.2 mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back Sheet	Composite film
Cells	6*12 pieces polycrystalline solar cells series strings (156*156mm)
Junction Box	Rated current ≥ 12A, IP ≥ 65, TUV & UL
Cable	Length 900 mm, 1x4 mm ²
Connector	Compatible with MC 4

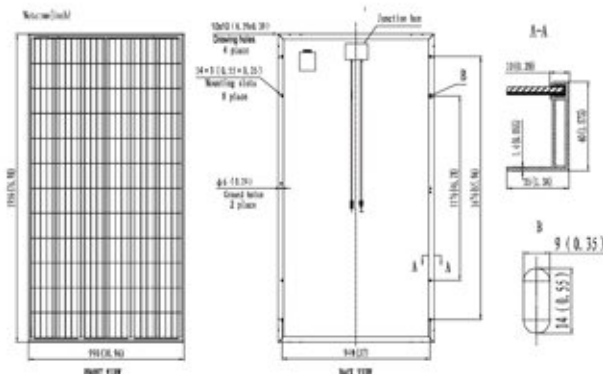
PACKAGING

Dimensions (L*W*H)	2015 x 1170 x 1137 mm
Container 20'	260 pcs
Container 40'HC	672 pcs

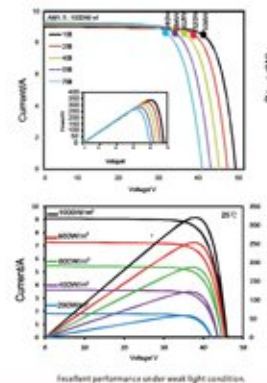
SYSTEM DESIGN

Temp. Range	-40°C to + 85°C
Hail	Max. diameter of 25mm with impact speed of 23m/s
Max. Capacity	Snow 5400 Pa, wind 2400 Pa
Application Class	A
Safety Class	II

Dimensions



IV-Curves



Product specifications are subject to change without further notice.



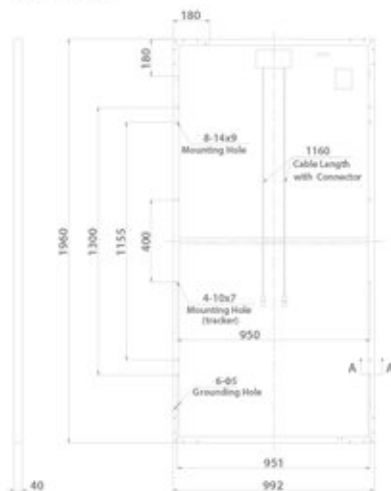
MAXPOWER POLYCRYSTLINE CS6U- 325| 330| 335P MODEL & SPECIFICATION

FEATURES

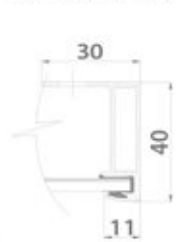
- Excellent module efficiency of up to: 17.23 %
- Outstanding low irradiance performance of up to: 96.0 %
- High PTC rating of up to: 92.21 %
- IP68 junction box for long-term weather endurance
- Heavy snow load up to 5400 Pa, wind load up to 2400 Pa

ENGINEERING DRAWING (mm)

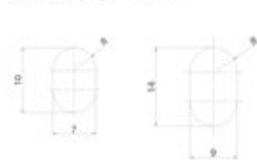
Rear View



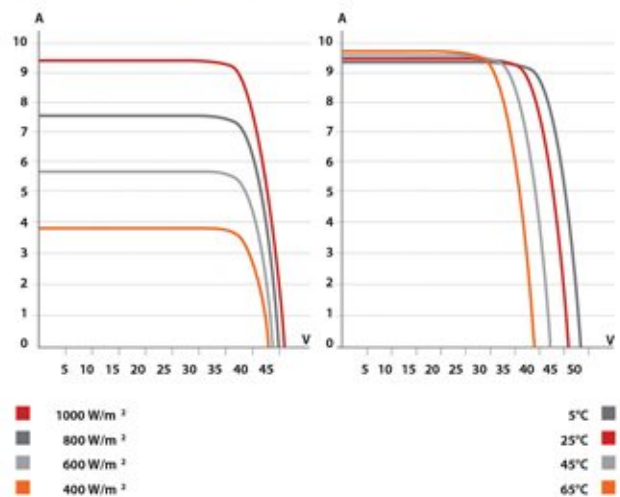
Frame Cross Section A-A



Mounting Hole



CS6U-330P / I-V CURVES



ELECTRICAL DATA | STC*

CS6U	325P	330P	335P
Nominal Max. Power (Pmax)	325 W	330 W	335 W
Opt. Operating Voltage (Vmp)	37.0 V	37.2 V	37.4 V
Opt. Operating Current (Imp)	8.78 A	8.88 A	8.96 A
Open Circuit Voltage (Voc)	45.5 V	45.6 V	45.8 V
Short Circuit Current (Isc)	9.34 A	9.45 A	9.54 A
Module Efficiency	16.72%	16.97%	17.23%
Operating Temperature	-40°C ~ +85°C		
Max. System Voltage	1000 V (IEC) or 1000 V (UL)		
Module Fire Performance	TYPE 1 (UL 1703) or CLASS C (IEC 61730)		
Max. Series Fuse Rating	15 A		
Application Classification	Class A		
Power Tolerance	0 ~ + 5 W		

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

ELECTRICAL DATA | NMOT*

CS6U	325P	330P	335P
Nominal Max. Power (Pmax)	239 W	243 W	247 W
Opt. Operating Voltage (Vmp)	34.0 V	34.2 V	34.4 V
Opt. Operating Current (Imp)	7.03 A	7.10 A	7.17 A
Open Circuit Voltage (Voc)	42.4 V	42.5 V	42.6 V
Short Circuit Current (Isc)	7.54 A	7.63 A	7.70 A

* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

PERFORMANCE AT LOW IRRADIANCE

Outstanding performance at low irradiance, with an average relative efficiency of 96.0 % for irradiances between 200 W/m² and 1000 W/m² (AM 1.5, 25°C).

MECHANICAL DATA

Specification	Data
Cell Type	Poly-crystalline, 6 inch
Cell Arrangement	72 (6 × 12)
Dimensions	1960 × 992 × 40 mm (77.2 × 39.1 × 1.57 in)
Weight	22.4 kg (49.4 lbs)
Front Cover	3.2 mm tempered glass
Frame Material	Anodized aluminium alloy
J-Box	IP68, 3 diodes
Cable	4.0 mm ² (IEC), 12 AWG (UL), 1160 mm (45.7 in)
Connector	T4 series
Per Pallet	26 pieces, 635 kg (1400 lbs)
Per Container (40' HQ)	624 pieces

TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.40 % / °C
Temperature Coefficient (Voc)	-0.31 % / °C
Temperature Coefficient (Isc)	0.05 % / °C
Nominal Module Operating Temperature (NMOT)	43 ± 2 °C

* The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. Canadian Solar Inc. reserves the right to make necessary adjustment to the information described herein at any time without further notice.

Product specifications are subject to change without further notice.



LUXEN
Quality Maker

MAXPOWER CS6U- 325| 330| 335P MODEL & SPECIFICATION

FEATURES

- ISO 9001:2015&ISO14001 mangarment systems Wind load up to 3800Pa
Snow load up to 5400Pa
- IEC61215 & IEC61730 standard quality
- 0-5W positive power sorting
- Stable performance under weak light conditions
- Salt mist and ammonia corrosion tests passed
- 25-year power warranty
- 10-year product warranty



MONO

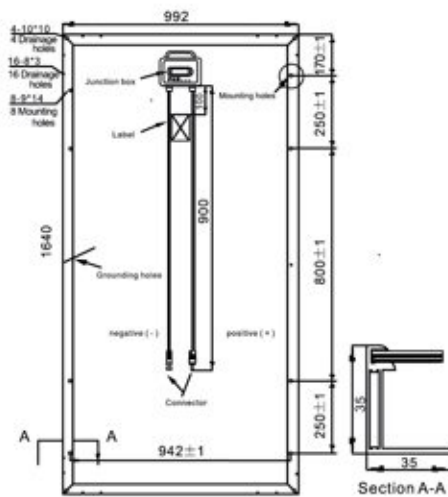
STC	LNSE-280M	LNSE-285M	LNSE-290M	LNSE-295M	LNSE-300M
Maximum Power (P_{max})	280W	285W	290W	295W	300W
Open Circuit Voltage (V_{oc})	38.5V	38.7V	38.9V	39.1V	39.2V
Short Circuit Current (I_{sc})	9.37A	9.49A	9.60A	9.69A	9.82A
Voltage at Maximum Power (V_{mpp})	31.5V	31.7V	31.9V	32.0V	32.3V
Current at Maximum Power (I_{mpp})	8.89A	8.99A	9.09A	9.16A	9.29A
Module Efficiency (%)	17.21%	17.52%	17.83%	18.13%	18.44%

POLY

STC	LNSE-265P	LNSE-270P	LNSE-275P	LNSE-280P	LNSE-285P
Maximum Power (P_{max})	265W	270W	275W	280W	285W
Open Circuit Voltage (V_{oc})	37.5V	38.2V	38.2V	38.5V	38.6V
Short Circuit Current (I_{sc})	9.21A	9.30A	9.35A	9.44A	9.54A
Voltage at Maximum Power (V_{mpp})	30.5V	30.9V	30.9V	31.1V	31.3V
Current at Maximum Power (I_{mpp})	8.68A	8.74A	8.90A	9.01A	9.10A
Module Efficiency (%)	16.29%	16.60%	16.90%	17.21%	17.52%

STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5;

Best in Class AAA solar simulator(IEC 60904-9) used, power measurement uncertainty is within +/-3%



Mechanical Characteristics

Solar Cell	156×156mm(6 inches)
No. of Cells	60(6×10)
Dimensions	1640×992×35mm
Weight	20.0kgs
Front	Glass 3.2mm tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67/IP68 rated(3 by pass diodes) 4.0mm ²
Output Cables	symmetrical length (-)900mm and (+)900mm
Connectors	MC4 compatible
Mechanical load test	5400Pa

Operating Module Temperature -40°C to +85°C

Maximum System Voltage 1500V DC (IEC)
600V DC (UL)

Maximum Series Fuse Rating 15A

Power Tolerance 0/+5W

Temperature Characteristics

Nominal Operating Cell Temperature (N_{ocT}) 45±2°C

Temperature Coefficient of P_{max} -0.40%/°C

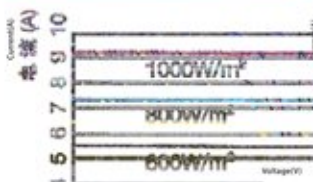
Temperature Coefficient of V_{oc} -0.31%/°C

Temperature Coefficient of I_{sc} 0.05%/°C

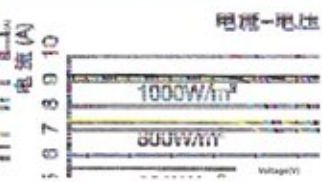
Packing Configuration

Container	20'GP	40'GP
Pieces per pallet	30	30
Pallets per container	12	28
Pieces per container	360	840

LNSE-290M/I-V



LNSE-275P/I-V



Product specifications are subject to change without further notice.



Jinko Solar
Building Your Trust in Solar

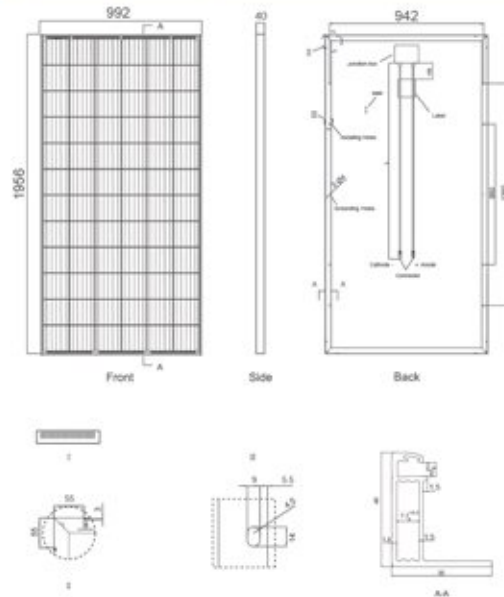


EAGLE 72P 320-340 WATT MODEL & SPECIFICATION

FEATURES

- 5 busbar solar cell adopts new technology to improve the efficiency of modules , offers a better aesthetic appearance, making it perfect for rooftop installation.
- Polycrystalline 72-cell module achieves a power output up to 340Wp.
- Advanced glass and surface texturing allow for excellent performance in low-light environments.
- High salt mist and ammonia resistance certified by TUV NORD.
- Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).
- Improved temperature coefficient decreases power loss during high temperatures.

Engineering Drawings

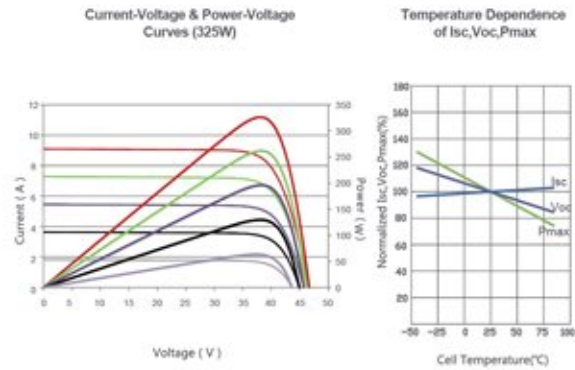


Packaging Configuration

(Two pallets=One stack)

26pcs/pallet, 52pcs/stack, 624 pcs/40'HQ Container

Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	Poly-crystalline	156×156mm (6 inch)
No. of cells	72	(6×12)
Dimensions	1956×992×40mm	(77.01×39.05×1.57 inch)
Weight	22.5 kg	(49.6 lbs.)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass	
Frame	Anodized Aluminium Alloy	
Junction Box	IP67 Rated	
Output Cables	TÜV 1×4.0mm ² , Length: 1200mm or Customized Length	

SPECIFICATIONS

Module Type	JKM320PP-72		JKM325PP-72		JKM330PP-72		JKM335PP-72		JKM340PP-72	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	320Wp	237Wp	325Wp	241Wp	330Wp	245Wp	335Wp	249Wp	340Wp	253Wp
Maximum Power Voltage (Vmp)	37.4V	34.7V	37.6V	35.0V	37.8V	35.3V	38.0V	35.6V	38.2V	35.9V
Maximum Power Current (Imp)	8.56A	6.83A	8.66A	6.89A	8.74A	6.94A	8.82A	6.99A	8.91A	7.05A
Open-circuit Voltage (Voc)	46.4V	43.0V	46.7V	43.3V	46.9V	43.6V	47.2V	43.8V	47.5V	44.0V
Short-circuit Current (Isc)	9.05A	7.35A	9.10A	7.40A	9.14A	7.45A	9.18A	7.52A	9.22A	7.98A
Module Efficiency STC (%)	16.49%		16.75%		17.01%		17.26%		17.52%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1000VDC (IEC)									
Maximum series fuse rating	20A									
Power tolerance	0~+3%									
Temperature coefficients of Pmax	-0.38%/°C									
Temperature coefficients of Voc	-0.31%/°C									
Temperature coefficients of Isc	0.06%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									

STC: Irradiance 1000W/m² Cell Temperature 25°C AM=1.5

NOCT: Irradiance 800W/m² Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s

* Power measurement tolerance: ± 3%

The company reserves the final right for explanation on any of the information presented hereby. JKM320-340PP-72-A1-EN

Product specifications are subject to change without prior notice.



Trinasolar



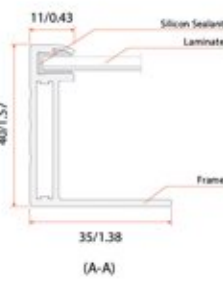
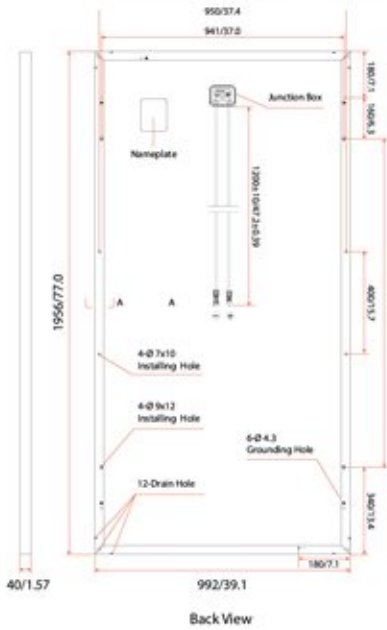
WITH ALL IMPORT DOCUMENT

TRINA SOLAR 325W POLY CRYSTLINE MODEL & SPECIFICATION

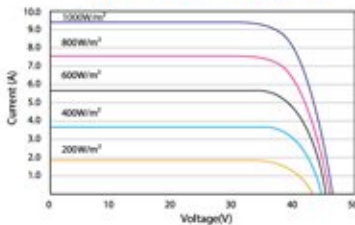
FEATURES

- High powerful footprint reduces installation time and BOS costs
- 1000V UL/1000V IEC certified
- Field proven performance
- Strong, reliable supplier
- Over 30 in-house tests (UV, TC, HF, and many more)
- In-house testing goes well beyond certification requirements
- PID resistant
- 100% EL double inspection
- 2400 Pa wind load
- 5400 Pa snow load
- 35 mm hail stones at 97 km/h

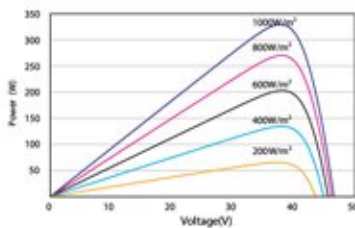
DIMENSIONS OF PV MODULE (mm/finch)



I-V CURVES OF PV MODULE(335W)



P-V CURVES OF PV MODULE(335W)



ELECTRICAL DATA (STC)				
Peak Power Watts-PMAX (Wp)*	320	325	330	335
Power Output Tolerance-PMAX (W)	0 ~ +5			
Maximum Power Voltage-VMPP (V)	37.1	37.2	37.3	37.6
Maximum Power Current-IMPP (A)	8.63	8.76	8.87	8.91
Open Circuit Voltage-VOC (V)	45.8	45.9	46.1	46.3
Short Circuit Current-ISC (A)	9.10	9.25	9.38	9.39
Module Efficiency m (%)	16.5	16.8	17.0	17.3
<small>STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5. *Measuring tolerance: ±3%.</small>				
ELECTRICAL DATA (NOCT)				
Maximum Power-PMAX (Wp)	238	242	246	249
Maximum Power Voltage-VMPP (V)	34.4	34.5	34.6	34.9
Maximum Power Current-IMPP (A)	6.91	7.02	7.11	7.14
Open Circuit Voltage-VOC (V)	42.5	42.6	42.7	42.9
Short Circuit Current-ISC (A)	7.35	7.47	7.57	7.58
<small>NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.</small>				
MECHANICAL DATA				
Solar Cells	Multicrystalline 156.75 × 156.75 mm (6 inches)			
Cell Orientation	72 cells (6 × 12)			
Module Dimensions	1956 × 992 × 40 mm (77.0 × 39.1 × 1.57 inches)			
Weight	22.5 kg (49.6 lb)			
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Tempered Glass			
Backsheet	White			
Frame	Silver Anodized Aluminium Alloy			
J-Box	IP 67 or IP 68 rated			
Cables	Photovoltaic Technology Cable 4.0mm ² (0.006 inches ²), 1200 mm (47.2 inches)			
Connector	MC4 or Amphenol H4/UTX			
Fire Type	Type 1 or Type 2			
TEMPERATURE RATINGS		MAXIMUM RATINGS		
NOCT(Nominal Operating Cell Temperature)	44°C (±2°C)	Operational Temperature	-40~+85°C	
Temperature Coefficient of PMAX	- 0.41%/°C	Maximum System Voltage	1000V DC (IEC)	
Temperature Coefficient of VOC	- 0.32%/°C		1000V DC (UL)	
Temperature Coefficient of ISC	0.05%/°C	Max Series Fuse Rating	15A	
<small>(DO NOT connect Fuse in Combiner Box with two or more strings in vparallel connection)</small>				
WARRANTY		PACKAGING CONFIGURATION		
10 year Product Workmanship Warranty	Modules per box: 27 pieces			
25 year Linear Power Warranty	Modules per 40' container: 648 pieces			
<small>(Please refer to product warranty for details)</small>				

LINEAR PERFORMANCE WARRANTY



Product specifications are subject to change without further notice.

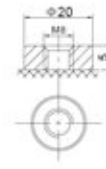
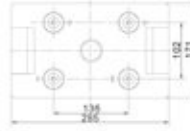


RITAR DC2-600MGA(2V600AH) MODEL & SPECIFICATION

FEATURES

Cells Per Unit	1
Voltage Per Unit	2
Capacity	600Ah@10hr-rate to 1.80V per cell @25℉
Weight	Approx. 36.5Kg (Tolerance ±2%)
Internal Resistance	Approx. 0.52 mΩ
Terminal	F10(M8)
Max. Discharge Current	3000A (5 sec)
Design Life	20 years (floating charge)
Maximum Charging Current	120.0 A
Reference Capacity	C1 370.6AH C3 469.5AH C5 528.0AH C10 600.2AH
Float Charging Voltage	2.27 V~2.30 V @ 25° Temperature Compensation: -3mV/° Cell
Cycle Use Voltage	2.43 V~2.47 V @ 25° Temperature Compensation: -4mV/° Cell
Operating Temperature Range	Discharge: -20° ~60° Charge: 0° ~50° Storage: -20° ~60°
Normal Operating Temperature Range	25° ±5°
Self Discharge	RITAR Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25° and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25℉. Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

Dimensions



F10 TERMINAL

Length	285±2mm (11.2 inches)	
Width	171±2mm (6.73 inches)	
Height	330±2mm (13.0 inches)	
Total Height	342±2mm (13.5 inches)	
Terminal	Value	
M5	6-7	N*m
M6	8-10	N*m
M8	10-12	N*m

Unit: mm

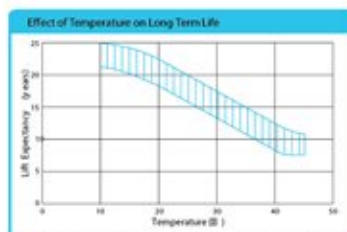
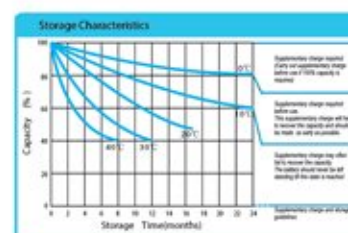
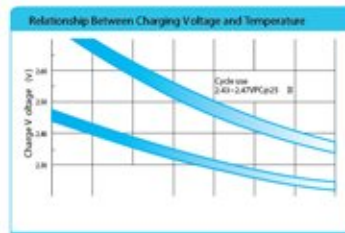
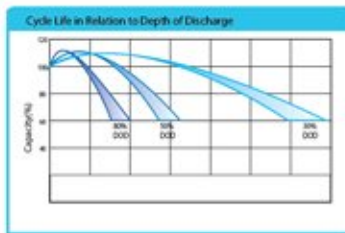
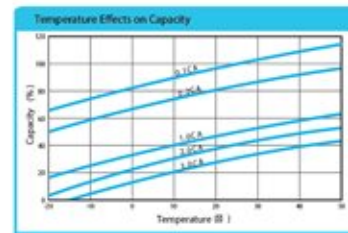
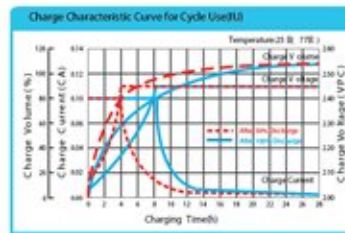
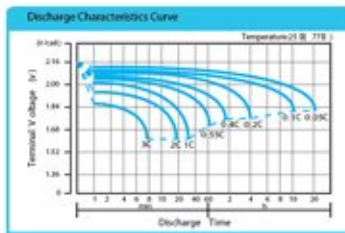
Constant Current Discharge Characteristics : A(25°)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	800.5	592.1	356.9	215.2	164.0	130.8	110.2	76.0	63.9
1.67V	779.5	579.1	350.3	212.1	161.8	129.2	108.9	75.3	63.3
1.70V	752.0	561.9	341.5	207.9	158.9	127.0	107.2	74.2	62.5
1.75V	716.0	539.4	330.0	202.3	155.1	124.2	105.0	72.9	61.4
1.80V	669.9	510.3	315.0	195.0	150.0	120.4	102.0	71.1	60.0
1.85V	611.6	473.0	295.6	185.6	143.4	115.4	98.1	68.7	58.1

Constant Power Discharge Characteristics : WPC(25°)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	1454	1107	676.4	411.0	314.9	252.2	215.2	149.4	125.9
1.67V	1437	1094	668.7	407.5	312.3	250.3	213.4	148.2	124.9
1.70V	1394	1065	654.0	400.5	307.4	246.7	210.4	146.3	123.4
1.75V	1341	1028	634.9	391.4	301.1	241.9	206.3	143.8	121.4
1.80V	1267	977.0	609.0	378.8	292.3	235.4	200.9	140.4	118.8
1.85V	1168	912.2	574.7	362.0	280.5	226.4	193.7	135.9	115.2

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.



(Note: All above information shall be changed without prior notice. We reserves the right to explain and update the latest information.)

Product specifications are subject to change without further notice.

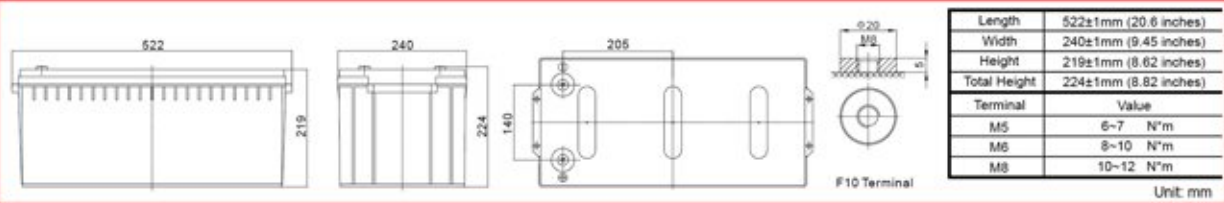


RITAR DC12-200MG(12V200AH) MODEL & SPECIFICATION

FEATURES

Cells Per Unit	6
Voltage Per Unit	12
Capacity	200Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 60.0 Kg (Tolerance ± 1.5%)
Internal Resistance	Approx. 4 mΩ
Terminal	F10(M8)/F16(M8)
Max. Discharge Current	2000A (5 sec)
Design Life	12 years (floating charge)
Maximum Charging Current	60.0 A
Reference Capacity	C3 147.3AH C5 167.0AH C10 190.0AH C20 200.0AH
Float Charging Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/ Cell
Cycle Use Voltage	14.6 V~14.8 V @ 25°C Temperature Compensation: -4mV/°C/ Cell
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C ± 5°C
Self Discharge	RITAR Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C. Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

Dimensions

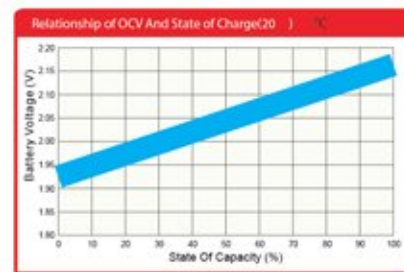
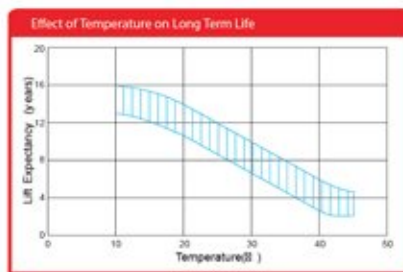
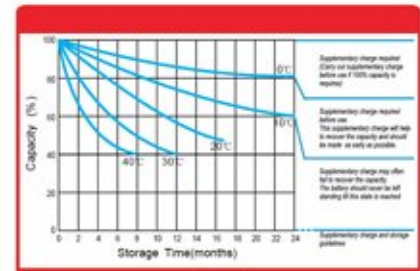
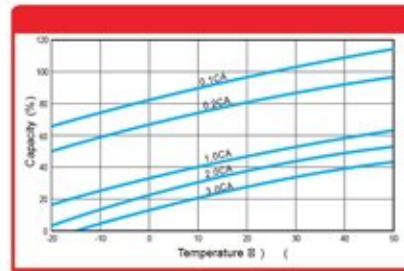
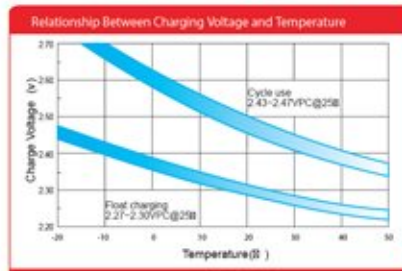
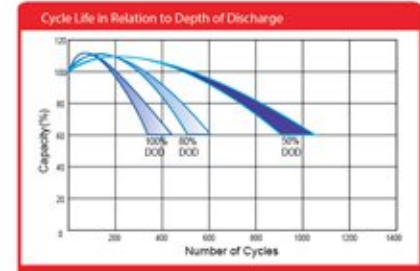
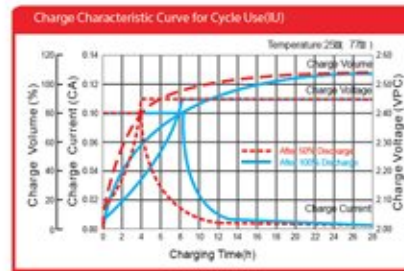
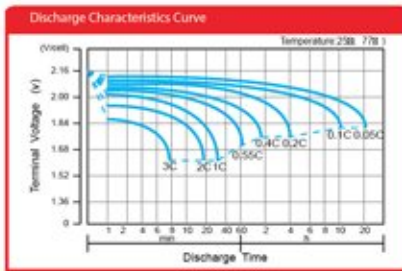


Constant Current Discharge Characteristics : A(25°)

F.V./Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	396.7	312.7	181.3	113.8	70.3	52.4	41.8	35.3	24.1	20.4	10.4
1.65V	383.5	303.3	177.5	111.7	69.1	51.6	41.3	34.8	23.8	20.2	10.3
1.70V	366.2	291.0	172.4	108.8	67.5	50.5	40.5	34.2	23.4	19.9	10.2
1.75V	343.1	274.5	165.6	104.9	65.3	49.1	39.5	33.4	22.9	19.5	10.0
1.80V	312.3	252.3	156.2	99.6	62.3	47.0	38.0	32.3	22.3	19.0	9.75
1.85V	270.1	221.6	142.9	92.0	58.0	44.1	35.9	30.7	21.3	18.2	9.40

Constant Power Discharge Characteristics : WPC(25°)

F.V./Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	710	575	347	224	140	105	84.6	71.6	49.5	42.2	21.5
1.65V	704	570	344	222	139	104	83.8	71.0	49.1	41.9	21.4
1.70V	680	552	336	217	136	102	82.5	70.0	48.4	41.3	21.1
1.75V	649	528	326	210	132	99.9	80.6	68.6	47.5	40.6	20.8
1.80V	601	492	311	201	127	96.1	77.9	66.5	46.2	39.5	20.3
1.85V	529	438	287	187	119	90.6	73.8	63.4	44.2	38.0	19.6



Product specifications are subject to change without further notice.



SMART PACK



LITHIUM DRY BATTERY

LITHIUM BATTERY 100AH MODEL & SPECIFICATION

FEATURES

- Wall mounted
- High safety LiFePO4 battery
- Long cycle life (≥ 4000 cycles)
- Advanced High/Low temperature cycle performance
- Intelligent LED & LCD display
- Optional RS485, CAN communication with PCS
- Multi battery modules paralleling support
- Support WIFI communication & cloud platform through installing APP in mobile phone

2. Battery Specification

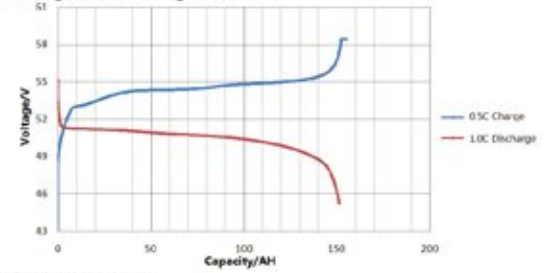
Items	Description
Nominal voltage	51.2V
Nominal capacity	100Ah
Nominal energy	5.12KWh
Operation temperature(cells temperature)	Discharge: -20℃~60℃(-4℉~140℉) Charge: 0℃~45℃(32℉~113℉)
Charging Voltage	Normal charging: 57.6V, Float Charging: 55.2V
Max. charging current	100A
End discharging voltage	43.2V
Max. discharging current	Continuously: 100A; Peak: 500A(3S), 750A(1S)
Cycle life@0.33C	≥2000cycles (DOD100%); ≥4000cycles (DOD80%)
Life time	10years
Dimensions(Width/Height/Depth)	482*600*300 mm(TBD)
Battery module weight	65kg(TBD)
Transport standards	UN38.3
Self-discharge rate	≤2% per month
Storage Temperature & Humidity Range	-10~30℃, 45%~85%RH

3. BMS Function

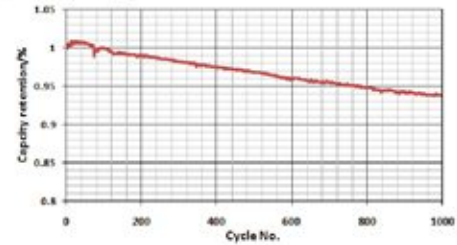
Items	Description	
Over charge	Over-charge alarm for each cell	3.55±0.03V
	Over-charge protection for each cell	3.75±0.03V, Delay time:1s
	Over-charge release for each cell	3.40±0.03V
	Over-charge alarm for total voltage	56.8V±0.5V
	Over-charge protection for total voltage	60.0V±0.5V, Delay time:1s
	Over-charge release for total voltage	54.4V±0.5V
Over discharge	Over-charge release method	Under the release voltage
	Over-discharge alarm for each cell	3.00±0.03V
	Over-discharge protection for each cell	2.70±0.03V, Delay time:1s
	Over-discharge release for each cell	3.10±0.03V
	Over-discharge alarm for total voltage	48.0V±0.5V
	Over-discharge protection for total voltage	43.2V±0.5V, Delay time:1s
Over current	Over-discharge release for total voltage	49.6V±0.5V
	Over-discharge release method	Charge to recovery
	Charge over current alarm	165±5A
	Charge over current protection	180±5A, Delay time:5s
	Charge over current release method	Auto release after 1min;
	Discharge over current alarm	165±5A
Over temperature	Discharge over current protection	180±10A, Delay time:1s
	Over current release method	Auto release after 1min
	Charge over temperature alarm	50±3℃
	Charge over temperature protection	55±3℃
	Charge over temperature release	45±3℃
	Discharge over temperature alarm	60±3℃
Under temperature	Discharge over temperature protection	65±3℃
	Discharge over temperature release	55±3℃
	Charge under temperature alarm	5±3℃
	Charge under temperature protection	0±3℃
	Charge under temperature release	5±3℃
	SOC	LOW SOC Alarm: 10%
LCD	Battery information display: Voltage, Power, SOC, Cycles, Temperature, Residual energy, Errors/Alerts	
Communication	Can-bus, RS485 Optional	
monitoring	W, poll all of the WIFI enabled batteries on the same sub-network. Support max. 14pcs in parallel.	
Series & Parallel connection	Prohibit serial connection; Support max. 14pcs in parallel.	

4. Performance curve

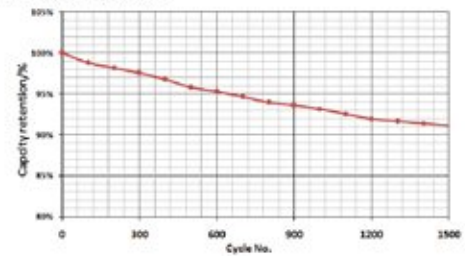
Battery 0.5C charge & 1.0C discharge curve



Cell 100%DOD Cycle life @ 0.5C



Cell 80%DOD Cycle life @ 0.5C



5. Product pictures

Product:



LCD display:



App interface:



Product specifications are subject to change without prior notice.



HRTI SERIES RACK ONLINE UPS 1-10KVA (220V/230V/240V)

HT11 SERIES TOWER ONLINE UPS 1-3KVA (220V/230V/240V) MODEL & SPECIFICATION

FEATURES

- Wide range of input voltage while input PF>97%
- Output PF of 0.9, more powerful load capability
- Full protection of overvoltage, circuit short and over temperature
- LCD/LED display, monitoring all the operation status
- Auto fan speed adjustment
- In-built output transformer for TX branch

MODEL	I	HT1101S HT1101S-TX	HT1101L HT1101L-TX	HT1102S HT1102S-TX	HT1102L HT1102L-TX	HT1103S HT1103S-TX	HT1103L HT1103L-TX
	II	HT1101S- II	HT1101L- II	HT1102S- II	HT1102L- II	HT1103S- II	HT1103L-
Capacity		1kVA		2kVA		3kVA	
Phase		Single Phase in, Single Phase out					
Input voltage		110VAC-288VAC					
		100% load@>176VAC; 80% load@>154VAC; 70% load@>132VAC; 50% load@>110VAC					
Input PF		≥ 0.97					
Input frequency		40Hz ~70Hz					
Output PF	I	0.9 (0.8 for TX branch)					
	II	0.8					
Output voltage		220V/230V/240V					
Voltage regulation		± 1 % (±5% for TX branch)					
THDu		THD ≤ 2%(linear)					
		THD ≤ 5.5%(non-linear)		THD ≤ 5%(non-linear)		THD ≤ 5%(non-linear)	
Crest factor		3:1					
Efficiency		87.0% (80% for TX branch)		91.0% (81% for TX branch)		90.0% (81% for TX branch)	
Noise		<43dB@<70%Load, <47dB@>70%Load		<45dB@<70%Load, <50dB@>70%Load		<45dB@<70%Load, <50dB@>70%Load	
Overload capability		Inverter		105% ~130%: to bypass after 1 min; 150%: to bypass after 30 sec			
		Battery		105% ~130%:shut down after 10 sec; 150%:shut down after 5 sec			
Battery voltage	I	36VDC		72VDC		96VDC	
	II	24VDC		48VDC		72VDC	
Battery type/number	I	12V,7Ah*3	External	12V,7Ah*6	External	12V,7Ah*8	External
	II	12V,7Ah*2	External	12V,7Ah*4	External	12V,7Ah*6	External
Max charging current		1A	8A	1A	8A	1A	8A
Interface		RS232,EPO					
Optional		USB (B Type), SNMP, Dry contact					
W*D*H(mm)	I	144*353*222		190*374*336		190*427*336	
		144*353*438		190*427*570		190*427*570	
	II	144*353*222		190*374*336		190*374*336	
Weight(kg)	I	10.5	5	21	8.5	24.5	9.5
		25	20	45	34	55	40
	II	10	6	17	11	22	12

Product specifications are subject to change without prior notice.



HT11 SERIES TOWER ONLINE UPS 6-20KVA (220V/230V/240V)



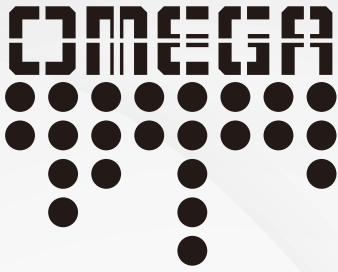
HT11 SERIES TOWER ONLINE UPS 6-20KVA (220V/230V/240V MODEL & SPECIFICATION)

FEATURES

- Wide range of input voltage and high input power factor
- Output PF of 0.9
- Full protection of overvoltage, circuit short and over temperature
- LCD display, monitoring all the operation status
- Auto fan speed adjustment
- Abundant interface : RS232, USB, SNMP, Intelligent Card
- Inbuilt output transformer

MODEL	HT1115L	HT1120L	HT1106S-TX	HT1110L-TX
			HT1106L-TX	
Capacity	15kVA	20kVA	6kVA	10kVA
Phase	Single phase in , Single phase out			
Input voltage range	50%-125%(220VAC/230VAC/240VAC)			
	100% load@>176VAC; 90% load@>154VAC 80% load@>132VAC; 65% load@>110VAC			
Input PF	0.98		0.99	
Input frequency range	40Hz-70Hz			
Output PF	0.9		0.8	
Output voltage	220V/230V/240V		110/220VAC	
Voltage regulation	±1%		±2%	
THDu	≤ 1%(linear); ≤ 5% (non-linear)		1%(linear); 5%(non-linear)	
Battery voltage	192VDC			
Battery type/number	External	External	12V,7Ah*16	External
			External	
System efficiency	Normal mode:93.5%; ECO mode:98%; Battery mode:92%		Normal mode:88% ECO mode:93%; Battery mode:87%	
Noise(1 meter away)	<48dB@<70%load; 60dB@>70%load		<48dB@<70%load; <60dB@>70%load	
Overload capability (Inverter mode)	110%:for 10 min ;130%:for 1min ; 150%:for 30 sec (shut down the bypass after 1 min)			
Overload capability (Battery mode)	110%: shut down after 10 min; 125%:shut down after 10 sec; > 125%: shut down after 1 sec			
Crest factor	3:1			
Display	LED+LCD			
Interface	Standard:RS232,EPO			
	Optional: SNMP, USB, Dry Contacts,Parallel Kit, ECO Kit, External Battery Cable (standard model), Maintenance Bypass,			
W*D*H (mm)	250*562*650	250*562*710	250*504*945	250*504*885
			250*504*945	
Weight(kg)	27	34	104	78
			65	

Product specifications are subject to change without prior notice.

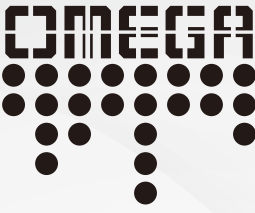


INF-VII






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

- > 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
- > Battery Independent system





INF-VII 1.5KW/2KW/3KW/5KW ON-GRID INVERTER WITH ENERGY STORAGE SELECTION

MODEL	INF-V II 1.5K	INF-VII 2K	INF-VII 3K-24V	INF-VII 3K-48V	INF-VII 5K
					
Phase	1-phase in / 1-phase out				
Maximum PV Input Power	2000W	3000W	4000W	4000 W	5000W
Rated Output Power	1500W	2000W	3000 W	3000W	5000W
Maximum Charging Power	2000W	2880W	2880W	2880W	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
Start-up Voltage / Initial Feeding Voltage	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
Number of MPP Trackers / Maximum Input Current	1 / 18 A	1 / 18 A	1 / 18A	1 / 18A	1 / 23A
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
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
PV INPUT (DC)					
Maximum DC Voltage	400 VDC	450 VDC	450 VDC	450 VDC	450 VDC
MPP Voltage Range	120 VDC ~ 380 VDC	90 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 / 23A
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%
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
Start-up Voltage / Initial Feeding Voltage	130VDC / 150 VDC	130VDC / 150 VDC	130VDC / 150 VDC	130VDC / 150 VDC	120VDC / 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
Number of MPP Trackers / Maximum Input Current	1 / 18 A	1 / 18 A	1 / 18A	1 / 18A	1 / 23A
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
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
BATTERY MODE OUTPUT (AC)					
Nominal Output Voltage	220/230/240 VAC				
Efficiency (DC to AC)	93%	93%	93%	93%	93%
BATTERY & CHARGER					
Nominal DC Voltage	48 VDC	48 VDC	24 VDC	48 VDC	48 VDC
Maximum Solar Charging Current	30A	60 A	60 A	60 A	100 A
Maximum AC Charging Current	40A	60 A	60 A	60 A	100 A
Maximum Charging Current	40A	60 A	60 A	60 A	100 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
Net Weight (kgs)	8	11	11	11	12
INTERACE					
Parallel Function	N/A	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

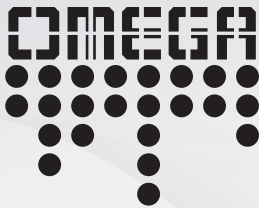


INF




On-grid Inverter with Energy Storage Selection

- > 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
- > Multiple communication for USB, RS-232, Modbus and SNMP
- > Monitoring software for real-time status display and control





INF 3KW/5KW/10KW ON-GRID INVERTER WITH ENERGY STORAGE SELECTION

MODEL	INF-3K	INF-5K	INF-10K
			
Phase	1-phase in / 1-phase out		
Maximum PV Input Power	4500 W	10000 W	14850 W
Rated Output Power	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	360 VDC / 500 VDC		720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC	225 VDC / 250 VDC	320 VDC / 350 VDC
MPP Voltage Range	250 VDC ~ 450 VDC	250 VDC ~ 850 VDC	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 18A	2 / 2 x 10A	2 / 2 x 18.6A
GRID OUTPUT (AC)			
Nominal Output Voltage	208/220/230/240 VAC		230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 265 VAC*		184 - 265 VAC* per phase
Nominal Output Current	13A	21A	14.5A per phase
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		120 - 140 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC		170 - 280 VAC per phase
Maximum AC Input Current	30 A		40 A
PV INPUT (DC)			
Maximum DC Voltage	500 VDC		900 VDC
MPP Voltage Range	250 VDC ~ 850 VDC	250 VDC ~ 850 VDC	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 18A	2 / 2 x 10A	2 / 2 x 18.6A
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	202/208/220/230/240 VAC		230 VAC (P-N) / 400 VAC (P-P)
Output Waveform		Pure sine wave	
Efficiency (DC to AC)		93%	91%
HYBRID OPERATION			
PV INPUT (DC)			
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC		720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC	225 VDC / 250 VDC	320 VDC / 350 VDC
MPP Voltage Range	250 VDC ~ 450 VDC	250 VDC ~ 850 VDC	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 18A	2 / 2 x 10A	2 / 2 x 18.6A
GRID OUTPUT (AC)			
Nominal Output Voltage	202/208/220/230/240 VAC		230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 265 VAC*		184 - 265 VAC* per phase
Nominal Output Current	13A	21A	14.5A per phase
AC INPUT			
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC		120 - 140 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC		170 - 280 VAC per phase
Maximum AC Input Current	30 A		40 A
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	202/208/220/230/240 VAC		230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC to AC)		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	167.2 x 500 x 622
Net Weight (kgs)	15.5	29	45
INTERACE			
Communication Port	RS-232/USB		RS-232/USB and CAN Interface
Intelligent Slot		Optional SNMP, Modbus and AS-400 cards available	
ENVIRONMENT			
Humidity		0 ~ 90% RH (No 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



INF-VII WP




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

- > 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





INF-VII WP 2KW/3KW/5KW ON-GRID INVERTER WITH ENERGY STORAGE SELECTION

MODEL	INF-VII WP 2K	INF-VII WP 3K	INF-VII WP 5K
			
Phase	1-phase in / 1-phase out		
Maximum PV Input Power	3000 W	4000 W	6000 W
Rated Output Power	2000VA/2000W	3000VA/3000W	5000VA/5000W
Maximum Charging Power	2000 W	3000 W	4000 W
GRID-TIE OPERATION			
PV INPUT (DC)			
Maximum DC Voltage	400 VDC	450 VDC	500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC		
MPP Voltage Range	120 VDC ~ 400 VDC	120 VDC ~ 400 VDC	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 10A	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	8.7A	13A	21.7A
Power Factor	> 0.99		
EFFICIENCY			
Maximum Conversion Efficiency (DC/AC)	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
PV INPUT (DC)			
Maximum DC Voltage	400 VDC	450 VDC	500 VDC
MPP Voltage Range	120 VDC ~ 400 VDC	120 VDC ~ 400 VDC	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 10A	1 / 18A	1 / 27A
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	220/230/240 VAC		
Output Waveform	Pure sine wave		
Efficiency (DC to AC)	92%	92%	93%
HYBRID OPERATION			
PV INPUT (DC)			
Maximum DC Voltage	400 VDC	450 VDC	500 VDC
Start-up Voltage / Initial Feeding Voltage	120 VDC / 150 VDC		
MPP Voltage Range	120 VDC ~ 400 VDC	120 VDC ~ 400 VDC	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 10A	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	8.7A	13A	21.7A
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
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	220/230/240 VAC		
Efficiency (DC to AC)	92%	92%	93%
BATTERY & CHARGER			
Nominal DC Voltage	48 VDC		
Maximum Charging Current	40 A	60 A	80 A
GENERAL			
PHYSICAL			
Dimension, D x W x H (mm)	200 x 350 x 592.7		
Net Weight (kgs)	20		
INTERACE			
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



UPGRADED PORSCHE SERIES - HOME INVERTERS

- Upgraded generation smart and intelligent solar inverter
- Wide input voltage range
- New Smart LCD Display for complete information
- Battery equalization
- Advance MPPT Solar Charger
- Safety Switch



1.4KVA



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2.4KVA

Light Up Your Life With SOLAR ENERGY



DELTAPOWER
GREEN, CLEAN, SMART

**UPGRADED
MODEL**
NEW ATTRACTIVE DESIGN

ANTI DUST KIT

120-500V
Wide PV Input



Max. Efficiency
98%



CONTROL THROUGH
ANDROID APP



100A SOLAR
Charge Controller

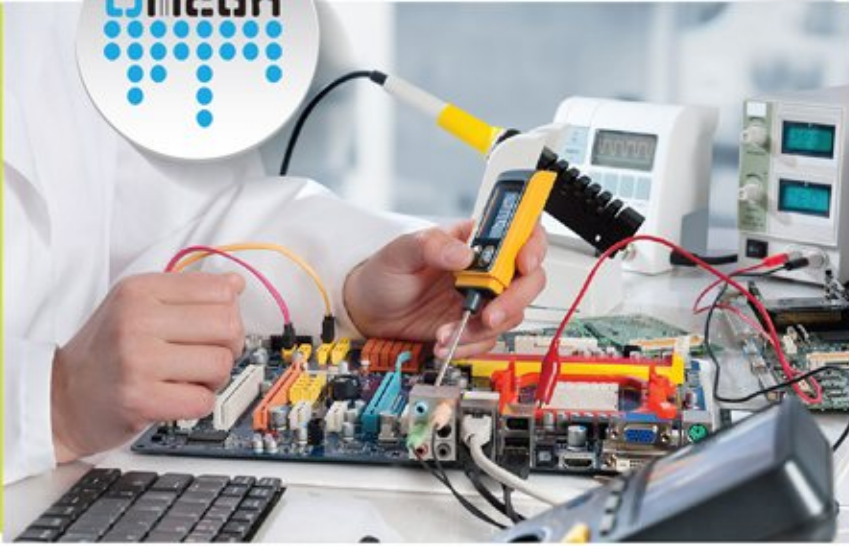
VMIII 5.5 KW

World's Tier 1 brand

VMIII 3.5 KW

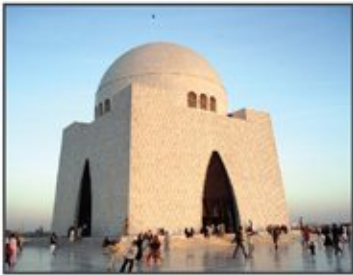
World's Tier 1 brand





**AFTER SALES SERVICES
" NATION WIDE"**

Karachi



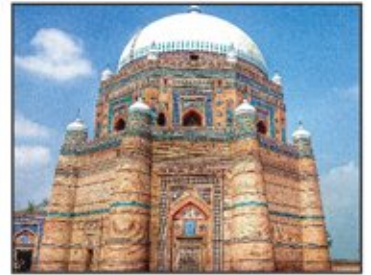
Lahore



Faisalabad



Multan



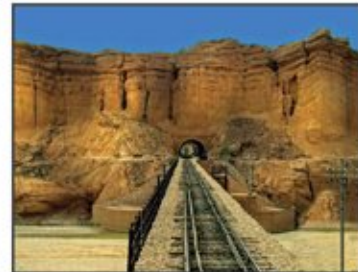
Rawalpindi



Peshawar

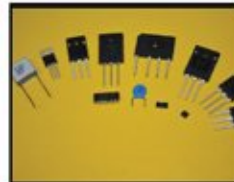


Quetta



PARTS & SPARES AVAILABLE FOR VOLTRONICS INVERTERS

- Charge Controllers
- Control Cards
- Main PCB Cards
- MOSFET
- IGBT
- DIODs
- Resisters
- Inverters Fans

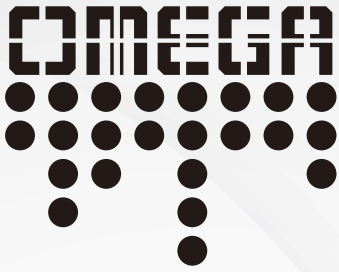


BUSINESS PARTNER WORLD WIDE



OUR CUSTOMERS





INF-VII WP




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

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- > 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

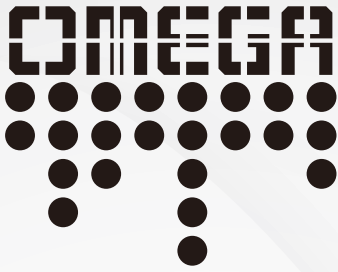




INF-VII WP 2KW/3KW/5KW ON-GRID INVERTER WITH ENERGY STORAGE SELECTION

MODEL	INF-VII WP 2K	INF-VII WP 3K	INF-VII WP 5K
			
Phase	1-phase in / 1-phase out		
Maximum PV Input Power	3000 W	4000 W	6000 W
Rated Output Power	2000VA/2000W	3000VA/3000W	5000VA/5000W
Maximum Charging Power	2000 W	3000 W	4000 W
GRID-TIE OPERATION			
PV INPUT (DC)			
Maximum DC Voltage	400 VDC	450 VDC	500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC		
MPP Voltage Range	120 VDC ~ 400 VDC	120 VDC ~ 400 VDC	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 10A	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	8.7A	13A	21.7A
Power Factor	> 0.99		
EFFICIENCY			
Maximum Conversion Efficiency (DC/AC)	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
PV INPUT (DC)			
Maximum DC Voltage	400 VDC	450 VDC	500 VDC
MPP Voltage Range	120 VDC ~ 400 VDC	120 VDC ~ 400 VDC	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 10A	1 / 18A	1 / 27A
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	220/230/240 VAC		
Output Waveform	Pure sine wave		
Efficiency (DC to AC)	92%	92%	93%
HYBRID OPERATION			
PV INPUT (DC)			
Maximum DC Voltage	400 VDC	450 VDC	500 VDC
Start-up Voltage / Initial Feeding Voltage	120 VDC / 150 VDC		
MPP Voltage Range	120 VDC ~ 400 VDC	120 VDC ~ 400 VDC	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 10A	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	8.7A	13A	21.7A
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
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	220/230/240 VAC		
Efficiency (DC to AC)	92%	92%	93%
BATTERY & CHARGER			
Nominal DC Voltage	48 VDC		
Maximum Charging Current	40 A	60 A	80 A
GENERAL			
PHYSICAL			
Dimension, D x W x H (mm)	200 x 350 x 592.7		
Net Weight (kgs)	20		
INTERACE			
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

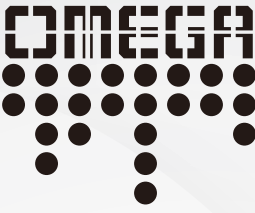


INF-VII






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

- > Pure sine wave output
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- > User-adjustable charging current and voltage
- > Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
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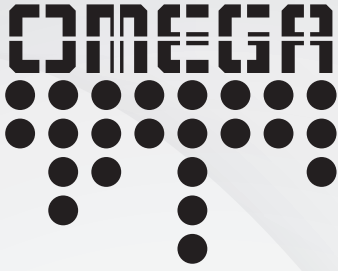




INF-VII 1.5KW/2KW/3KW/5KW ON-GRID INVERTER WITH ENERGY STORAGE SELECTION

MODEL	INF-V II 1.5K	INF-VII 2K	INF-VII 3K-24V	INF-VII 3K-48V	INF-VII 5K
					
Phase	1-phase in / 1-phase out				
Maximum PV Input Power	2000W	3000W	4000W	4000 W	5000W
Rated Output Power	1500W	2000W	3000 W	3000W	5000W
Maximum Charging Power	2000W	2880W	2880W	2880W	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
Start-up Voltage / Initial Feeding Voltage	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
Number of MPP Trackers / Maximum Input Current	1 / 18 A	1 / 18 A	1 / 18A	1 / 18A	1 / 23A
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
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
PV INPUT (DC)					
Maximum DC Voltage	400 VDC	450 VDC	450 VDC	450 VDC	450 VDC
MPP Voltage Range	120 VDC ~ 380 VDC	90 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 / 23A
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%
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
Start-up Voltage / Initial Feeding Voltage	130VDC / 150 VDC	130VDC / 150 VDC	130VDC / 150 VDC	130VDC / 150 VDC	120VDC / 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
Number of MPP Trackers / Maximum Input Current	1 / 18 A	1 / 18 A	1 / 18A	1 / 18A	1 / 23A
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
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
BATTERY MODE OUTPUT (AC)					
Nominal Output Voltage	220/230/240 VAC				
Efficiency (DC to AC)	93%	93%	93%	93%	93%
BATTERY & CHARGER					
Nominal DC Voltage	48 VDC	48 VDC	24 VDC	48 VDC	48 VDC
Maximum Solar Charging Current	30A	60 A	60 A	60 A	100 A
Maximum AC Charging Current	40A	60 A	60 A	60 A	100 A
Maximum Charging Current	40A	60 A	60 A	60 A	100 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
Net Weight (kgs)	8	11	11	11	12
INTERACE					
Parallel Function	N/A	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

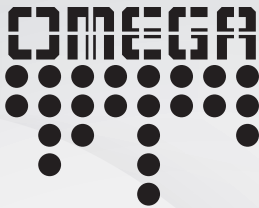


INF




On-grid Inverter with Energy Storage Selection

- > 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
- > Multiple communication for USB, RS-232, Modbus and SNMP
- > Monitoring software for real-time status display and control





INF 3KW/5KW/10KW ON-GRID INVERTER WITH ENERGY STORAGE SELECTION

MODEL	INF-3K	INF-5K	INF-10K
			
Phase	1-phase in / 1-phase out		
Maximum PV Input Power	4500 W	10000 W	14850 W
Rated Output Power	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	360 VDC / 500 VDC		720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC	225 VDC / 250 VDC	320 VDC / 350 VDC
MPP Voltage Range	250 VDC ~ 450 VDC	250 VDC ~ 850 VDC	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 18A	2 / 2 x 10A	2 / 2 x 18.6A
GRID OUTPUT (AC)			
Nominal Output Voltage	208/220/230/240 VAC		230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 265 VAC*		184 - 265 VAC* per phase
Nominal Output Current	13A	21A	14.5A per phase
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		120 - 140 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC		170 - 280 VAC per phase
Maximum AC Input Current	30 A		40 A
PV INPUT (DC)			
Maximum DC Voltage	500 VDC		900 VDC
MPP Voltage Range	250 VDC ~ 850 VDC	250 VDC ~ 850 VDC	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 18A	2 / 2 x 10A	2 / 2 x 18.6A
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	202/208/220/230/240 VAC		230 VAC (P-N) / 400 VAC (P-P)
Output Waveform		Pure sine wave	
Efficiency (DC to AC)		93%	91%
HYBRID OPERATION			
PV INPUT (DC)			
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC		720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC	225 VDC / 250 VDC	320 VDC / 350 VDC
MPP Voltage Range	250 VDC ~ 450 VDC	250 VDC ~ 850 VDC	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 18A	2 / 2 x 10A	2 / 2 x 18.6A
GRID OUTPUT (AC)			
Nominal Output Voltage	202/208/220/230/240 VAC		230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 265 VAC*		184 - 265 VAC* per phase
Nominal Output Current	13A	21A	14.5A per phase
AC INPUT			
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC		120 - 140 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC		170 - 280 VAC per phase
Maximum AC Input Current	30 A		40 A
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	202/208/220/230/240 VAC		230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC to AC)		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	167.2 x 500 x 622
Net Weight (kgs)	15.5	29	45
INTERACE			
Communication Port	RS-232/USB		RS-232/USB and CAN Interface
Intelligent Slot		Optional SNMP, Modbus and AS-400 cards available	
ENVIRONMENT			
Humidity		0 ~ 90% RH (No 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



UPGRADED PORSCHE SERIES - HOME INVERTERS

- Upgraded generation smart and intelligent solar inverter
- Wide input voltage range
- New Smart LCD Display for complete information
- Battery equalization
- Advance MPPT Solar Charger
- Safety Switch



1.4KVA



2.4KVA

Light Up Your Life With SOLAR ENERGY



DELTAPOWER
GREEN, CLEAN, SMART



**Max. Efficiency
98%**



**CONTROL THROUGH
ANDROID APP**



**100A SOLAR
Charge Controller**

VMIII 5.5 KW

VMIII 3.5 KW

World's Tier 1 brand

World's Tier 1 brand



DELTAPOWER
GREEN, CLEAN, SMART



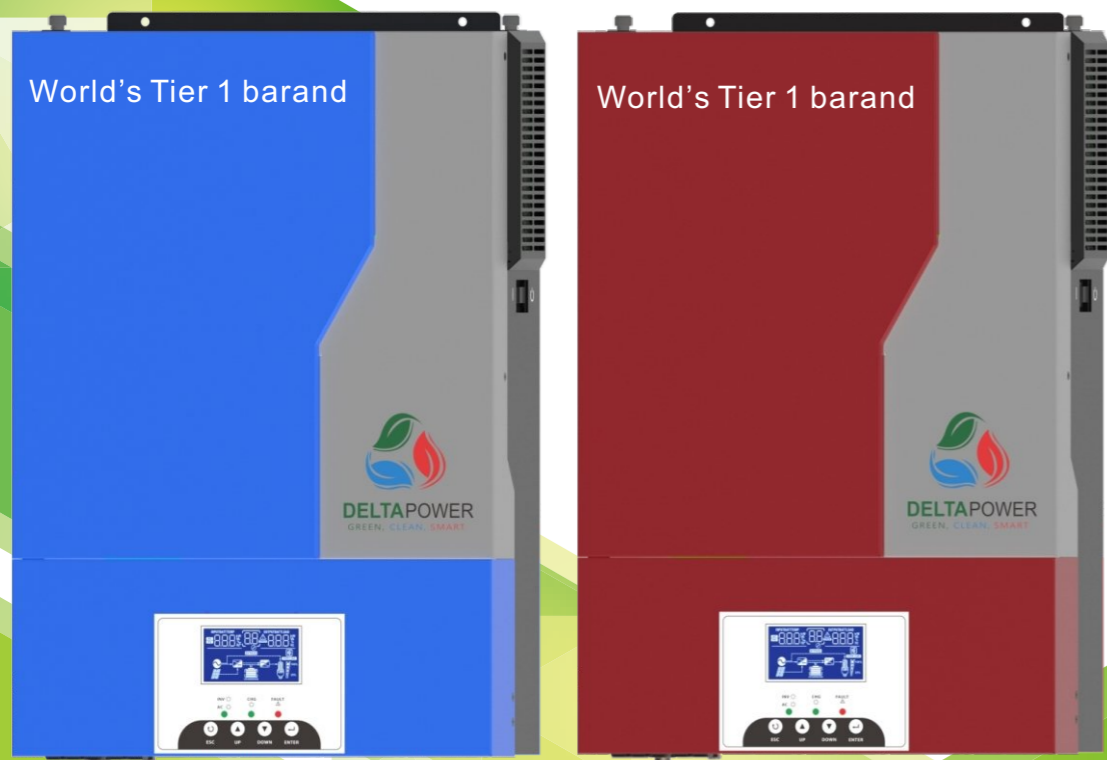
DELTAPOWER
GREEN, CLEAN, SMART





DELTAPOWER
GREEN, CLEAN, SMART

DP VIII SERIES



DP VMIII-3500W

DP VMIII-5500W



Max. Efficiency
98%



100A MPPT



USB/RS232/GPRS
WIFI



IP21
Ingress Protection



Pure sine wave solar inverter

Output power factor 1.0

Wifi&GPRS available for IOS and android

Inverter running without battery

Buit-in 100A MPPT solar charger

High PV input voltage range(120~500VDC)

Buit-in anti-dusk kit for harsh environment

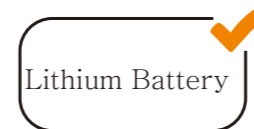
Smart battery charge design to optimize battery life

E-mail: www.omegapowerus.com

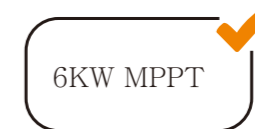
KEY FEATURES



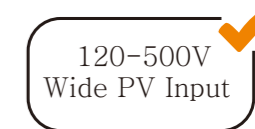
WIFI



Lithium Battery



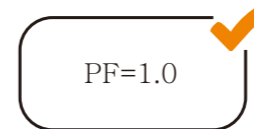
6KW MPPT



120-500V
Wide PV Input



GPRS



PF=1.0



100A MPPT



No need
battery

TECHNICAL DATA

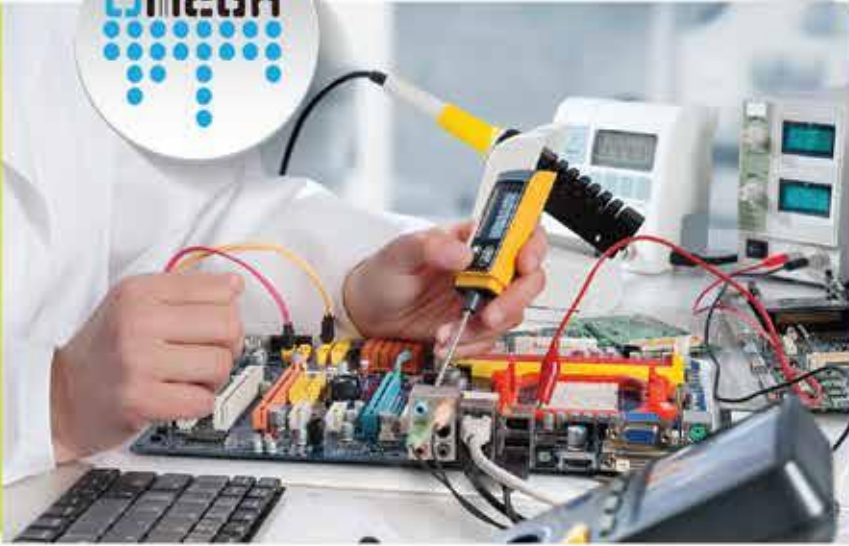
Model	DP VIII-3500W	DP VIII-5500W
RATED POWER	3500VA/3500W	5500VA/5500W
Input	230VAC	
Voltage	230VAC	
Selectable Voltage Range	170~280VAC(For Personal Computers) 90~280VAC(For Home Appliances)	
Frequency Range	50 Hz/60Hz(Auto sensing)	
OUTPUT	230VAC±5%	
AC Voltage Regulation(Batt.Mode)	230VAC±5%	
Surge Power	7000VA	11000VA
Efficiency(Peak)PV to INV	97%	
Efficiency(Peak)Battery to INV	94%	
Transfer Time	10 ms (For Personal Computers);20 ms (For Home Appliances)	
BATTERY & AC CHARGER		
Battery Voltage	24VDC	48VDC
Floating Charge Voltage	27VDC	54VDC
Overcharge Protection	33VDC	63VDC
Maximum Charge Current	100A	100A
SOLAR CHARGER		
Maximum PV Array Power	5000W	6000W
MPPT Range @ Operating Voltage	120~450VDC	
Maximum PV Array Open Circuit Voltage	500VDC	
Maximum Charging Current	100A	100A
Maximum Efficiency	98%	
PHYSICAL		
Dimension,D*W*H(mm)	100*300*440	
Net Weight(kgs)	11	12
Communication interface	USB/RS232/GPRS/WIFI	
OPERATING ENVIRONMENT		
Mumidity	5% to 95% Relative Humidity(Non~condensing)	
Operating Temperature	0°C~55°C	
Storage Temperature	-15°C~60°C	

BUSINESS PARTNER WORLD WIDE



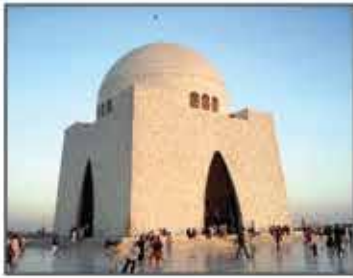
OUR CUSTOMERS





AFTER SALES SERVICES
" NATION WIDE"

Karachi



Lahore



Faisalabad



Multan



Rawalpindi



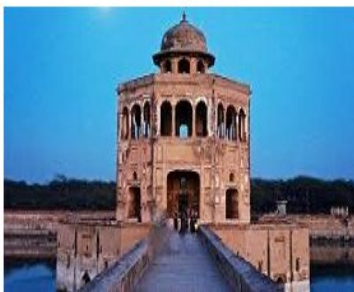
Peshawar



Quetta



Sheikhpura



Rahim Yar Khan



Sukkur



Hyderabad





Repairing Centers

Lahore

13-A, Canal Park, Gulberg II, Lahore

UAN: 0304-111016, Cell # 03362757577

Sheikhpura

Barki Road, Near regal Cinema, Sheikhpura

UAN: 0304-111016, Cell # 03362757577

Faisalabad

Rehman Center, Zia Town, Street# 2,

Kashmir Pull, Faisalabad

UAN: 0304-111016, Cell # 03362757577

Multan

50-56-C, LGF Trust Plaza, LMQ Road,

Multan

UAN: 0304-111016, Cell # 03362757577

Rahim Yar Khan

Bano Bazar, Rahim Yar Khan

UAN: 0304-111016, Cell # 03362757577

Karachi

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Karachi

UAN: 0304-111016, Cell # 03362757577

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UAN: 0304-111016, Cell # 03362757577



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