

InfiniSolar On-grid Inverter with Energy Storage



- 10KW three phase on-grid inverter with energy storage
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable battery charging current suits different types of batteries
- Programmable multiple operations modes: Grid tie, Off grid, and grid-tie with backup
- Built-in Timer for various mode of on/off operation
- Multiple communication for USB, RS-232, Modbus and SNMP
- Monitoring software for real time status display and control

InfiniSolar Three Phase On-grid Inverter with Energy Storage Selection Guide

MODEL	InfiniSolar 10KW
PHASE	3-phase in / 3-phase out
RATED OUTPUT POWER	10000 W
GRID-TIE OPERATION	
PV INPUT (DC)	
Maximum PV Input Power	14850W
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 18.6A
GRID OUTPUT (AC)	
Nominal Output Voltage	3/N/PE, 230VAC/400VAC*
Output Voltage Range	184 - 264.5 VAC*
Nominal Output Current	14.5 A*
Power Factor	> 0.99
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	96%
European Efficiency@ Vnominal	95%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage/Auto Restart Voltage	120 - 140 VAC / 185 VAC*
Acceptable Input Voltage Range	175 - 280 VAC*
Maximum AC Input Current	28 A
PV INPUT (DC)	
Maximum DC Voltage	900 VDC
MPP Voltage Range	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 18.6A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230 VAC*
Output Waveform	Pure Sinewave
Efficiency (DC to AC)	92%
HYBRID OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 18.6A
GRID OUTPUT (AC)	
Nominal Output Voltage	230 VAC*
Output Voltage Range	184 - 264.5 VAC*
Nominal Output Current	14.5 A*
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 198 VAC
Acceptable Input Voltage Range	184 - 264.5 VAC*
Maximum AC Input Current	28A*
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	3/N/PE, 230VAC/400VAC*
Efficiency (DC to AC)	91%
BATTERY & CHARGER	
Nominal DC Voltage	48 VDC
Maximum Charging Current	80A
GENERAL	
PHYSICAL	
Dimension, D X W X H (mm)	155 x 438 x 600
Net Weight (kgs)	45.5
INTERFACE	
Communication Port	RS-232/USB
Intelligent Slot	Optional SNMP, Modbus, and AS-400 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.