

InfiniSolar On-grid Inverter with Energy Storage



InfiniSolar 2KW/3KW
InfiniSolar Plus 3KW

InfiniSolar 5KW

- 2KW/3KW/5KW 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 On-grid Inverter with Energy Storage Selection Guide

MODEL	InfiniSolar 2KW	InfiniSolar 3KW	InfiniSolar Plus 3KW	InfiniSolar 5KW
PHASE	1-phase in / 1-phase out			
RATED OUTPUT POWER	2000 W	3000 W	3000 W	5000 W
GRID-TIE OPERATION				
PV INPUT (DC)				
Maximum PV Input Power	2250W	3200W	4500W	7500W
Nominal DC Voltage / Maximum DC Voltage	300 VDC / 350 VDC		360 VDC / 500 VDC	
Start-up Voltage / Initial Feeding Voltage	80 VDC / 120 VDC		116 VDC / 150 VDC	
MPP Voltage Range	150 VDC ~ 320 VDC		250 VDC ~ 450 VDC	
Number of MPP Trackers / Maximum Input Current	1 / 1 x 15 A	1 / 1 x 13 A	1 / 1 x 18 A	2 / 2 x 15 A
GRID OUTPUT (AC)				
Nominal Output Voltage	101/110/120/127 VAC		208/220/230/240 VAC	
Output Voltage Range	88 - 127 VAC*		184 - 264.5 VAC*	
Nominal Output Current	18 A	13 A	13 A	21 A
Power Factor			> 0.99	
EFFICIENCY				
Maximum Conversion Efficiency (DC/AC)	95%	96%	96%	96%
European Efficiency@ Vnominal	94%	95%	95%	95%
OFF-GRID OPERATION				
AC INPUT				
AC Start-up Voltage/Auto Restart Voltage	60 - 70 VAC / 85 VAC	120 - 140 VAC / 180 VAC	120 - 140 VAC / 180 VAC	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	80 - 130 VAC	170 - 280 VAC	170 - 280 VAC	170 - 280 VAC
Maximum AC Input Current		30 A		40 A
PV INPUT (DC)				
Maximum DC Voltage	350 VDC		500 VDC	
MPP Voltage Range	150 VDC ~ 320 VDC		250 VDC ~ 450 VDC	
Number of MPP Trackers / Maximum Input Current	1 / 1 x 15 A	1 / 1 x 13 A	1 / 1 x 18 A	2 / 2 x 15 A
BATTERY MODE OUTPUT (AC)				
Nominal Output Voltage	101/110/120/127 VAC		202/208/220/230/240 VAC	
Output Waveform			Pure Sinewave	
Efficiency (DC to AC)	90%	93%	93%	91%
HYBRID OPERATION				
PV INPUT (DC)				
Nominal DC Voltage / Maximum DC Voltage	300 VDC / 350 VDC		360 VDC / 500 VDC	
Start-up Voltage / Initial Feeding Voltage	80 VDC / 120 VDC		116 VDC / 150 VDC	
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BATTERY & CHARGER				
Nominal DC Voltage			48 VDC	
Maximum Charging Current		25A		60A
GENERAL				
PHYSICAL				
Dimension, D X W X H (mm)		107 x 438 x 480		135 x 440 x 505
Net Weight (kgs)		15.5		18.5
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	0 to 40°C		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.

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

AS4777, AS/NZS3100 (Only for InfiniSolar Plus 3KW)