

# InfiniSolar On-grid Inverter with Energy Storage



- 2KW/3KW/5KW on-grid inverter with energy storage
- Pure sinewave output
- Microprocessor controlled to guarantee stable charging system
- Multiple operations: Grid tie, Off grid, and grid-tie with backup
- Built-in MPPT solar charger
- LCD display panel for comprehensive information
- Multiple communication
- Green substitution for generators
- User-adjustable battery charging current

## InfiniSolar On-grid Inverter with Energy Storage Selection Guide

MODEL	InfiniSolar 2KW	InfiniSolar 3KW	InfiniSolar Plus 3KW	InfiniSolar 5KW
<b>RATED POWER</b>	2000 W	3000 W	3000 W	5000 W
<b>GRID-TIE OPERATION</b>				
<b>PV INPUT (DC)</b>				
Maximum DC 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
<b>GRID OUTPUT (AC)</b>				
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	13.1 A*	13.1 A*	21.7 A
Power Factor			> 0.99	
<b>EFFICIENCY</b>				
Maximum Conversion Efficiency (DC/AC)	95%	96%	96%	96%
European Efficiency@ Vnominal	94%	95%	95%	95%
<b>OFF-GRID OPERATION</b>				
<b>AC INPUT</b>				
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	85 - 130 VAC*	170 - 280 VAC	170 - 280 VAC	170 - 280 VAC
Number of MPP Trackers / Maximum Input Current	30 A	25 A	25 A	40 A
<b>PV INPUT (DC)</b>				
Maximum DC Voltage	350 VDC		500 VDC	
MPP Voltage Range	150 VDC ~ 320 VDC		250 VDC ~ 450 VDC	
Maximum Input Current	1 / 1 x 15 A	1 / 1 x 13 A	1 / 1 x 18 A	2 / 2 x 15 A
<b>BATTERY MODE OUTPUT (AC)</b>				
Nominal Output Voltage	101/110/120/127 VAC		208/220/230/240 VAC	
Output Waveform			Pure Sinewave	
Efficiency (DC to AC)	90%	93%	93%	91%
<b>HYBRID OPERATION</b>				
<b>PV INPUT (DC)</b>				
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	
Maximum Input Current	1 / 1 x 15 A	1 / 1 x 13 A	1 / 1 x 18 A	2 / 2 x 15 A
<b>GRID OUTPUT (AC)</b>				
Nominal Output Voltage	101/110/120/127 VAC		208/220/230/240 VAC	
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<b>AC INPUT</b>				
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	25 A	25 A	40 A
<b>BATTERY MODE OUTPUT (AC)</b>				
Nominal Output Voltage	101/110/120/127 VAC		208/220/230/240 VAC	
Efficiency (DC to AC)	90%	93%	93%	91%
<b>BATTERY &amp; CHARGER</b>				
Nominal DC Voltage			48 VDC	
Maximum Charging Current		25A		60A
<b>GENERAL</b>				
<b>PHYSICAL</b>				
Dimension, D X W X H (mm)		170 x 415 x 420		135 x 440 x 505
Net Weight (kgs)		15.5		18.5
<b>INTERFACE</b>				
Communication Port			RS-232/USB	
Intelligent Slot		Optional SNMP, Modbus, and AS-400 cards available		
<b>ENVIRONMENT</b>				
Humidity		0 ~ 90% RH (No condensing)		
Operating Temperature	0 to 40°C		0 to 40°C	-10 to 55°C
Altitude		0 ~ 1000 m**		

\*AC voltage range may vary depending on different AC voltage

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