

# InfiniSolar VII 6KW (Split phase)



- Pure sine wave output
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current up to 100A
- Detachable LCD control module with multiple communications
- Built-in WI-FI for mobile monitoring (App is available)
- Reserved communication port for BMS (RS485)

## InfiniSolar VII 6KW Split Phase On-Grid Inverter with Energy Storage Specification

MODEL	InfiniSolar V II 6KW
PHASE	Split phase
Maximum PV Input Power	6000 W
Rated Output Power	6000 VA
Maximum Charging Power	5000 W
<b>GRID-TIE OPERATION</b>	
<b>PV INPUT (DC)</b>	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 450 VDC
Start-up Voltage / Initial Feeding Voltage	125 VDC / 160 VDC
MPP Voltage Range	160 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27 A
<b>GRID OUTPUT (AC)</b>	
Nominal Output Voltage	110 VAC (P-N) / 220 VAC (P-P)
Output Voltage Range	91.5 - 132 VAC (P-N)/ 183 - 264 VAC (P-P)
Nominal Output Current	27.3 A per phase
Power Factor	> 0.99
<b>EFFICIENCY</b>	
Maximum Conversion Efficiency (DC/AC)	95%
<b>OFF-GRID OPERATION</b>	
<b>AC INPUT</b>	
AC Start-up Voltage / Auto Restart Voltage	65 VAC (P-N), 130 VAC (P-P) / 70 VAC (P-N), 140 VAC (P-P)
Acceptable Input Voltage Range	65 - 140 VAC (P-N)/ 130 - 280 VAC (P-P)
Frequency Range	50 Hz/60 Hz (Auto sensing)
Maximum AC Input Current	40 A per phase
<b>PV INPUT (DC)</b>	
Maximum DC Voltage	450 VDC
MPP Voltage Range	160 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27 A
<b>BATTERY MODE OUTPUT (AC)</b>	
Nominal Output Voltage	110 VAC (P-N) / 220 VAC (P-P)
Output Waveform	Pure sine wave
Efficiency (DC to AC)	88%
<b>HYBRID OPERATION</b>	
<b>PV INPUT (DC)</b>	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 450 VDC
Start-up Voltage / Initial Feeding Voltage	125 VDC / 160 VDC
MPP Voltage Range	160 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27 A
<b>GRID OUTPUT (AC)</b>	
Nominal Output Voltage	110 VAC (P-N) / 220 VAC (P-P)
Output Voltage Range	91.5 - 132 VAC (P-N)/ 183 - 264 VAC (P-P)
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<b>AC INPUT</b>	
AC Start-up Voltage / Auto Restart Voltage	65 VAC (P-N), 130 VAC (P-P) / 70 VAC (P-N), 140 VAC (P-P)
Acceptable Input Voltage Range	65 - 140 VAC (P-N)/ 130 - 280 VAC (P-P)
Maximum AC Input Current	40 A per phase
<b>BATTERY MODE OUTPUT (AC)</b>	
Nominal Output Voltage	110 VAC (P-N) / 220 VAC (P-P)
Output Waveform	Pure sine wave
Efficiency (DC to AC)	88%
<b>BATTERY &amp; CHARGER</b>	
Nominal DC Voltage	48 VDC
Maximum Solar Charging Current	100A
Maximum AC Charging Current	100A
Maximum Charging Current	100A
<b>GENERAL</b>	
<b>PHYSICAL</b>	
Dimension, D x W x H (mm)	138 x 417 x 550
Net Weight (kgs)	45
<b>INTERFACE</b>	
Communication	USB/RS-232/RS-485/WiFi/Dry contact
<b>ENVIRONMENT</b>	
Humidity	0 ~ 90% RH (Non-condensing)
Operating Temperature	-10°C to 55°C

Product specifications are subject to change without further notice.