

Infini VII WP

ON-GRID INVERTER WITH ENERGY STORAGE



- 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

Infini VII WP On-Grid Inverter with Energy Storage Selection Guide

MODEL	Infini VII WP 2KW	Infini VII WP 3KW	Infini VII WP 5KW
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.