Infini V4 WP Plus HMI





- IP66 certified enclosure
- Built-in 2 MPP trackers based on models
- Maximum PV input current increases to 21A/27A
- Dual output for smart load control
- Two independent AC power sources connected and switched automatically
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- Built-in BMS communication port and Wi-Fi for mobile monitoring
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Parallel operation up to 9 units

Infini V4 WP Plus HMI Hybrid Inverter Selection Guide

MODEL	Infini V4 WP Plus HMI 6KW	Infini V4 WP Plus HMI 8KW	Infini V4 WP Plus HMI 10KW
PHASE	1-phase in / 1-phase out		
MAXIMUM PV INPUT POWER	12000W	16000W	18000W
RATED OUTPUT POWER	6000VA/6000W	8000VA/8000W	10000VA/10000W
MAXIMUM CHARGING POWER	6000 W	8000W	10000W
GRID-TIE OPERATION			
PV INPUT (DC)			
Maximum DC Voltage	500 VDC		
Start-up Voltage / Initial Feeding Voltage	80 VDC / 150 VDC		
MPP Voltage Range	120 VDC ~ 450 VDC		
Number of MPP Trackers / Maximum Input Current	2 / 21A	2 / 27A	2 / 27A
GRID OUTPUT (AC)			
Nominal Output Voltage	220/230/240 VAC		
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC or 182 - 260 VAC (Selectable)		
Nominal Output Current	26A	34.8A	43.5A
Power Factor	> 0.99		
EFFICIENCY			
Maximum Conversion Efficiency (DC/AC)	>97%		
OFF-GRID OPERATION			
AC INPUT			
AC Start-up Voltage / Auto Restart Voltage	60 - 80 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	40 A	60 A	60 A
PV INPUT (DC)			
Maximum DC Voltage	500 VDC		
MPP Voltage Range	120 VDC ~ 450 VDC		
Number of MPP Trackers / Maximum Input Current	2 / 21A	2 / 27A	2 / 27A
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	220/230/240 VAC		
Output Waveform	Pure sine wave		
Efficiency (DC to AC)	93%		
HYBRID OPERATION			
PV INPUT (DC)			
Maximum DC Voltage	500 VDC		
Start-up Voltage / Initial Feeding Voltage	80 VDC / 150 VDC		
MPP Voltage Range	120 VDC ~ 450 VDC		
Number of MPP Trackers / Maximum Input Current	2 / 21A	2 / 27A	2 / 27A
GRID OUTPUT (AC)			
Nominal Output Voltage	220/230/240 VAC		
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC or 182 - 260 VAC (Selectable)		
Nominal Output Current	26A	34.8A	43.5A
AC INPUT			
AC Start-up Voltage / Auto Restart Voltage	60 - 80 VAC / 180 VAC		
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC		
Maximum AC Input Current	40 A	60A	60A
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	220/230/240 VAC		
Efficiency (DC to AC)	93%		
BATTERY & CHARGER			
Nominal DC Voltage	48 VDC		
Maximum Solar Charging Current	135A	190 A	210 A
Maximum AC Charging Current	135A	190 A	210 A
Maximum Charging Current	135A	190 A	210 A
GENERAL			
PHYSICAL			
Dimension, D x W x H (mm)	192 x 418 x 633		
Net Weight (kgs)	25	32	32
INTERFACE			
Parallel Function	Yes, 9 units		
Communication Port	USB or RS-232, Dry Contact, RS485, Wi-Fi		
ENVIRONMENT			
Humidity	0 ~ 100% RH (No condensing)		
Operating Temperature	-10°C to 50°C		
PROTECTION & CERTIFICATE			
Safety	IEC 62109, IEC 62116, IEC 61727, IEC 61683		
Grid Connection Standard	EN 50549-1/-10		

Product specifications are subject to change without further notice.