



InfiniSolar WP TWIN 12KW & 15KW

Features

- IP65 waterproof and dustproof makes the inverter available for various working conditions.
- Built-in WiFi for mobile monitoring (App is available)
- 150% unbalanced load support
- Maximum PV input current 27A
- Dual outputs for smart load management
- User-adjustable charging current
- Reserved communication port for BMS (RS485)
- Parallel operation up to 6 units



MODEL	InfiniSolar WP TWIN 12KW	InfiniSolar WP TWIN 15KW
MAXIMUM PV INPUT POWER	16000W	22500W
RATED OUTPUT POWER	12000 W	15000 W
MAXIMUM CHARGING POWER	12000 W	15000 W
GRID-TIE OPERATION		
PV INPUT (DC)		
Nominal DC Voltage	720 VDC	720 VDC
Maximum DC Voltage	1000 VDC	1000 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC	320 VDC / 350 VDC
MPP Voltage Range	350 VDC ~ 950 VDC	350 VDC ~ 950 VDC
Number of MPP Trackers / Maxium Input Current	2 / A: 27A, B: 27A	2 / A: 27A, B: 27A
Number of Strings Per MPP Tracker	A: 2, B: 2	A: 2, B: 2
GRID/UTILITY OUTPUT (AC)		
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 265 VAC per phase	184 - 265 VAC per phase
Output Frequency Range	47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz	47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz
Nominal Output Current	17.4 A per phase	21.7 A per phase
Power Factor range	0.9 lag ~ 0.9 lead	0.9 lag ~ 0.9 lead
EFFICIENCY		
Maximum Conversion Efficiency (DC/AC)	>96%	>96%
European Efficiency@ Vnominal	>95%	>95%
OFF-GRID OPERATION		
AC INPUT		
AC Start-up Voltage	120 - 140 VAC per phase	120 - 140 VAC per phase
Auto Restart Voltage	180 VAC per phase	180 VAC per phase
Acceptable Input Voltage Range	170 - 290 VAC per phase	170 - 290 VAC per phase
Maximum AC Input Current	40 A	40 A
PV INPUT (DC)		
Maximum DC Power	16000W	22500W
Maximum DC Voltage	1000 VDC	1000 VDC
MPP Voltage Range	350 VDC ~ 950 VDC	350 VDC ~ 950 VDC
Number of MPP Trackers / Maxium Input Current	2 / A: 27A, B: 27A	2 / A: 27A, B: 27A
Number of Strings Per MPP Tracker	A: 2, B: 2	A: 2, B: 2
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	230 VAC (P-N) / 400 VAC (P-P)
Output Frequency	50 Hz / 60 Hz (auto sensing)	50 Hz / 60 Hz (auto sensing)
Output Waveform	Pure sine wave	Pure sine wave
Efficiency (DC to AC)	91%	91%

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HYBRID OPERATION		
PV INPUT (DC)		
Maximum DC Power	16000W	22500W
Nominal DC Voltage	720 VDC	720 VDC
Maximum DC Voltage	1000 VDC	1000 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC	320 VDC / 350 VDC
MPP Voltage Range	350 VDC ~ 950 VDC	350 VDC ~ 950 VDC
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Output Frequency	50 Hz / 60 Hz (auto sensing)	50 Hz / 60 Hz (auto sensing)
Output Waveform	Pure sine wave	Pure sine wave
Efficiency (DC to AC)	91%	91%
BATTERY & CHARGER		
Battery Voltage Range	40 ~ 62 VDC	40 ~ 62 VDC
Maximum Charging Current	250 A	300 A
GENERAL		
PHYSICAL		
Dimension, D X W X H (mm)	255 x 660 x 750	255 x 660 x 750
Net Weight (kgs)	75	78
IP protection		
INTERACE		
Communication Port	RS-232, RS-485, USB, CAN and Wi-Fi	
Intelligent Slot	Optional for SNMP and Modbus cards	
ENVIRONMENT		
Humidity	0 ~ 100% RH (Non-condensing)	
Operating Temperature	-25 to 60°C, > 45°C power derating	
Altitude		