



ON/OFF GRID HYBRID SOLAR INVERTER

5000 VA / 5000 W : NRS097

GENERAL FEATURES

- Pure sine wave output
- Self-consumption and selectable excess PV energy export to grid
- NRS097 certified
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current and voltage
Programmable multiple operation modes:
- Grid-tie (with battery connected), off-grid and grid-tie with backup
- Monitoring software for real-time status display and control
- Parallel operation up to 6 units
- Single phase or three phase with 3 units
Optional Wifi box and remote monitoring software
Remote monitoring via web browser



PRODUCT SPECIFICATIONS Product specifications are subject to change without further notice

MODEL		InfiniSolar PLUS -5K-48
Phase		Single phase in / Single phase out
Maximum PV Input Power		10000 W
Rated Output Power		5000 W
Maximum Charging Power		4800 W
GRID-TIE OPERATION		
PV INPUT (DC)		
Nominal DC Voltage / Maximum DC Voltage		720VDC / 900VDC
Start-up Voltage / Initial Feeding Voltage		225VDC / 250VDC
MPP Voltage Range		250 VDC ~ 850 VDC
Number of MPP Trackers / Maximum Input Current		2 / 2X10A
GRID OUTPUT (AC)		
Nominal Output Voltage & Frequency		220/230/240 VAC; 50 Hz/60 Hz (auto sensing)
Output Voltage Range		184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)
Nominal Output Current		21A
Power Factor		>0.99
EFFICIENCY		
Maximum Conversion Efficiency (DC/AC)		96%
OFF-GRID OPERATION		
AC INPUT		
AC Start-up Voltage / Auto Restart Voltage		90 VAC / 180 VAC
Acceptable Input Voltage Range		90 - 280 VAC or 170 - 280 VAC
Maximum AC Input Current		40A
PV INPUT (DC)		
Maximum DC Voltage		900 VDC
MPP Voltage Range		250 VDC ~ 850 VDC
Number of MPP Trackers / Maximum Input Current		2 / 2x10A
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)		
Nominal DC Voltage / Maximum DC Voltage		720VDC / 900VDC
Start-up Voltage / Initial Feeding Voltage		225VDC / 250VDC
MPP Voltage Range		250 VDC ~ 850 VDC
Number of MPP Trackers / Maximum Input Current		2 / 2x10A

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Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC	
Maximum AC Input Current	40A	
BATTERY MODE OUTPUT (AC)		
Output Waveform	220/230/240 VAC; 50 Hz/60 Hz (Auto sensing)	
Nominal Output Voltage & Frequency	Pure sine wave	
Efficiency (DC to AC)	93%	
BATTERY & CHARGER		
Nominal DC Voltage	48 VDC	
Maximum Solar Charging Current	100A	
Maximum AC Charging Current	60A default / 5A - 100A adjustable	
Maximum Charging Current	100A	
GENERAL		
PHYSICAL		
Dimension, D x W x H (mm)	194 x 295 x 483	
Net Weight (kgs)	16	
INTERFACE		
Parallel Function	Yes	
External Safety Box (Optional)	Yes	
Communication Port	USB or RS-232/Dry Contact; Optional RS485, SNMP card	
ENVIRONMENT		
Humidity	0 ~ 90% RH (No condensing)	
Operating Temperature	0 to 50°C	

