



## ON/OFF GRID HYBRID SOLAR INVERTER

5000 VA / 5000 W

### GENERAL FEATURES

- Pure sine wave output
- Self-consumption and selectable excess PV energy export to grid
- 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 9 units, kit included
- 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 V-5K-48
Phase	Single phase in / Single phase out
Maximum PV Input Power	6000 W
Rated Output Power	5000 W
Maximum Charging Power	8640 W
<b>GRID-TIE OPERATION</b>	
<b>PV INPUT (DC)</b>	
Nominal DC Voltage / Maximum DC Voltage	80VDC / 145VDC
Start-up Voltage / Initial Feeding Voltage	60VDC / 60VDC
MPP Voltage Range	60 VDC ~ 115 VDC
Number of MPP Trackers / Maximum Input Current	2 / 60A
<b>GRID OUTPUT (AC)</b>	
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	21.7A
Power Factor	>0.99
<b>EFFICIENCY</b>	
Maximum Conversion Efficiency (DC/AC)	90%
<b>OFF-GRID OPERATION</b>	
<b>AC INPUT</b>	
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
<b>PV INPUT (DC)</b>	
Maximum DC Voltage	145 VDC
MPP Voltage Range	60 VDC ~ 115 VDC
Number of MPP Trackers / Maximum Input Current	2 / 60A
<b>BATTERY MODE OUTPUT (AC)</b>	
Nominal Output Voltage	220/230/240 VAC
Output Waveform	Pure sine wave
Efficiency (DC to AC)	93%
<b>HYBRID OPERATION</b>	
<b>PV INPUT (DC)</b>	
Nominal DC Voltage / Maximum DC Voltage	80VDC / 145VDC
Start-up Voltage / Initial Feeding Voltage	60VDC / 60VDC
MPP Voltage Range	60 VDC ~ 115 VDC
Number of MPP Trackers / Maximum Input Current	2 / 60A

**PRODUCT SPECIFICATIONS** *Product specifications are subject to change without further notice*

MODEL		InfiniSolar V-5K-48
<b>GRID OUTPUT (AC)</b>		
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	21.7A	
<b>AC INPUT</b>		
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	
<b>BATTERY MODE OUTPUT (AC)</b>		
Output Waveform	220/230/240 VAC; 50 Hz/60 Hz (Auto sensing)	
Nominal Output Voltage & Frequency	Pure sine wave	
Efficiency (DC to AC)	93%	
<b>BATTERY &amp; CHARGER</b>		
Nominal DC Voltage	48 VDC	
Maximum Solar Charging Current	120A	
Maximum AC Charging Current	60A	
Maximum Charging Current	180A	
<b>GENERAL</b>		
<b>PHYSICAL</b>		
Dimension, D x W x H (mm)	194 x 295 x 483	
Net Weight (kgs)	16	
<b>INTERFACE</b>		
Parallel Function	Yes	
External Safety Box (Optional)	Yes	
Communication Port	USB or RS-232/Dry Contact	
<b>ENVIRONMENT</b>		
Humidity	0 ~ 90% RH (No condensing)	
Operating Temperature	0 to 50°C	

