

HYBRID INVERTER

InfiniSolar VIII 5kw-48V (Version: Pro)



LCD Screen, IP20 Protection degree



Dual Output inverter for Normal & Smart Load



Max. charging/discharging current of 100A



Built-in communication function for BMS



Built-in feed in grid function



Maximum DC input power 8000W



Max. AC Output Power 6200



Built-in anti-dust kit



2 years warranty

Model	InfiniSolar VIII 5kw-48V (Version: Pro) Single Phase Hybrid Inverter
Battery Input Data	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range (V)	40~60
Battery Voltage VDC	48 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	63 VDC
PV String Input Data	
Solar Charger Type	MPPT
Maximum PV Array Open Circuit Voltage	500 VDC
Maximum PV Array Power	8000 W
Maximum PV Input Current	18A
MPPT @ Operating Voltage	90-450 VDC (Min. 100VDC without Battery Connected)
Maximum Solar Charge Current	100 A
Maximum AC Charge Current	100 A
Maximum Charge Current	100 A
AC Input/Output Data	
AC Output No.	Dual Outputs
Rated AC Input/Output Active Power (W)	5000
Max. AC Input/Output Apparent Power (VA)	6200
Rated AC Input/Output Current (A)	21.8
Max. AC Input/Output Current (A)	28.7
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)
Peak Power (off grid)	2 time of rated power, 10 ms (12400VA)
Power Factor Adjustment Range	0.8 leading to 0.8 lagging
Stable Voltage Range	170-280 VAC (For Personal Computers); 90-280 VAC (For Home Appliances)
Rated Input/Output Grid Frequency/Range(Hz)	50/60 Hz (Auto Sensing)
Grid Connection Form	L+N+PE
Total Current Harmonic Distortion THDi	<3% (of nominal power)
DC Injection Current	<0.5% In
Efficiency	
Max. Efficiency	93.0%
Euro Efficiency	96.5%
MPPT Efficiency	>99%
Equipment Protection	
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection AC Output Overvoltage Protection, AC Output Short Circuit Protection, Thermal Protection DC Terminal Insulation Impedance Monitoring, DC Component Monitoring, Ground Fault Current Monitoring Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch Overvoltage Load Drop Protection, Residual Current (RCD) Detection, Surge protection level
Surge Protection Level	TYPE II(DC), TYPE II(AC)
Interface	
Communication Interface	RS485/RS232/CAN
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)
General Data	
Operating Temperature Range (°C)	-10°C to +50°C
Storage Temperature	-15°C to +60°C
Permissible Ambient Humidity	5%-95% Relative Humidity (Non- condensing)
Inverter Topology	Non-Isolated
Over Voltage Category	OVC II(DC), OVC III(AC)
Type of Cooling	Fan Cooling
Noise (dB)	<30
Communication with BMS	RS232/RS485(BMS)/ WIFI
Weight (kg)	10.4 Kg
Cabinet Size (WxHxD mm)	150×300×435 (Excluding Connectors and Brackets)
Ingress Protection(IP) Rating	IP20
Installation Style	Wall-mounted
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2
Warranty	2 Years