HYBRID SOLAR INVERTER

PV1900 EXP Series

6.5KW | Dual Output | WIFI | Bluetooth



High-Efficiency PV & AC Charging

- PV 120A / AC 100A fast charging
- Up to 9kW PV input for higher energy yield

Flexible Power Input & Output Design

- Dual AC output for main and backup loads.
- Dual AC inputs (optional)

Smart Visualization

- Built-in WiFi for convenient remote monitoring
- Blue ambient battery indicator for clear system status

Scalable Parallel Expansion

- Supports up to 3 units in parallel as standard
- Expandable up to 9 units for larger power demands (optional)

Stable Multi-Mode Power Supply

- 6kW backup power with a single battery,
  Up to 6.5kW continuous output with PV connected
- Supports load supply without battery for greater flexibility

MUST®
Solar Power System

MAIN PARAMETER

MODEL	PV19-6548 EXP
INVERTER OUTPUT	
Nominal Battery System Voltage	48VDC
Rated Output Power(Battery Mode)	6000W
Rated Output Power (PV Input> 1000W)	6500W
Waveform	Pure sine wave
AC Voltage Regulation (Batt.Mode)	230VAC±5%(Setting)
Inverter Efficiency(Peak)	92.5%
Transfer Time	10ms (UPS / VDE4105) / 20ms (APL)
Overload Protection	600 ms @ ≥150% load; 11 s @ ≥110% load; 33 s @ 105%–110% load
AC INPUT	
Voltage	230VAC±5%
Selectable Voltage Range	170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VED4105)
Frequency Range	50Hz / 60Hz(Auto sensing)
BATTERY	
Normal Voltage	48VDC
Floating Charge Voltage	54.8VDC
Overcharge Protection	60VDC
SOLAR CHARGER & AC CHARGER	
Solar Charging Rated Power	9000W
Maxium PV Input Voltage (Voc)	500VDC max
MPPT Voltage Range(Typ.)	60~450VDC
Maxium PV Input Current	28A
Maximum Solar Charge Current	120A
Maximum AC Charge Current	100A
Maximum Charge Current	120A

OTHER PARAMETER

MODEL	PV19-6548 EXP
PROTECTION	
Integrated	Overload/ Over temperature/ Short circuit/ High & Low voltage protection
GENERAL DATA	
Operating Temperature Range	-10°C~+50°C
Storage temperature	-15°C~+60°C
Protection Degree	IP21
Noise@1m,10dB base.	≤55dB
Communication	WiFi/ Bluetooth/ RS-485/ CAN
Anti-dust Kit	Yes
Installation Style	Wall-mounted
MECHANICAL SPECIFICATIONS	
Machine Dimension (W*H*D)(mm)	331*455*137.5
Package Dimension (W*H*D)(mm)	/
N.W(kg)	10.3
G.W(kg)	/
Warranty	2 year
*Variations in dimensions and weights may occur due to production batches.	
CERTIFICATION & STANDARDS	
CE	

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