

HIGH FREQUENCY OFF GRID SOLAR INVERTER

PV1800 LV Series

1~5KW | 120V | Wifi



Pure Sine Wave Output

Provides stable and clean AC power with output power factor of 1.

Built-in MPPT Solar Charger

Integrated 80A MPPT controller maximizes solar charging efficiency.

Generator Compatibility

Can operate seamlessly with generator backup for flexible power solutions.

Remote Monitoring & Communication

Optional WiFi monitoring, with CAN/RS485 for BMS connectivity.

MAIN PARAMETER

MODEL	PV18-1012 LV	PV18-1512 LV	PV18-2024 LV	PV18-3024 LV	PV18-3048 LV	PV18-5048 LV
Nominal Battery System Voltage	12VDC	12VDC	24VDC	24VDC	48VDC	48VDC
INVERTER OUTPUT						
Rated Power	1000W	1500W	2000W	3000W	3000W	5000W
Surge Power	1000W	1500W	4000W	6000W	6000W	10000W
Waveform	Pure sine wave					
AC Voltage Regulation (Batt.Mode)	120VAC ±5%					
Inverter Efficiency(Peak)	90%~93%					
Transfer Time	10ms (UPS / UL) 20ms (APL)					
AC INPUT						
Voltage	120VAC					
Selectable Voltage Range	107~132VAC(UL)					
Frequency Range	50Hz / 60Hz(Auto sensing)					
BATTERY						
Normal voltage	12VDC	12VDC	24VDC	24VDC	48VDC	48VDC
Floating Charge Voltage	13.7VDC	13.7VDC	27.4VDC	27.4VDC	54.8VDC	54.8VDC
Overcharge Protection	15VDC	15VDC	30VDC	30VDC	60VDC	60VDC
SOLAR CHARGER & AC CHARGER						
Max. PV Array Open Circuit Voltage	105V	145V	160V	450VDC	450VDC	500VDC
Max. Solar Charge Current	60A	60A	60A	100A	100A	120A
PV Array MPPT Voltage Range	15~105VDC	15~130VDC	30~128VDC	90-430VDC	90-430VDC	90-450VDC
PV Input Power	750W	750W	1500W	4000W	5000W	6000W
Maximum Efficiency	98%					
Maximum AC Charge Current	10A	10A	40A	80A	60A	100A
Maximum Charge Current	70A	70A	100A	100A	100A	120A

OTHER PARAMETER

MODEL	PV18-1012 LV	PV18-1512 LV	PV18-2024 LV	PV18-3024 LV	PV18-3048 LV	PV18-5048 LV
MECHANICAL SPECIFICATIONS						
Machine Dimension (W*H*D)(mm)	224*321*95	255*321*125	254.5*367.4*103	322*486*134	425*527*145	
Package Dimension (W*H*D)(mm)	410*188*300	416*216*342	436*189*331	575*425*229	632*257*548	
N.W(kg)	5.0	5.5	5.5	10	17.8	
G.W(kg)	6.0	6.5	6.5	11	20.4	
OTHER						
Humidity	5% to 95% Relative humidity (Non-condensing)					
Operating Temperature	-10°C~50°C					
Storage Temperature	-15°C~60°C					
Standard Warranty	2 years					
CERTIFICATION & STANDARDS						
CE-LVD (IEC62109-1, EN IEC62109-2); UKCA-(BS EN 62109-1, BS EN 62109-2)						

*The technical specifications of this document are subject to change without any notice