

HIGH FREQUENCY SOLAR INVERTER

PV1800 PRO Series

2~6.2KW | Dual output

CE IEC UN38.3

Smart Power Architecture

- MPPT charge controller with wide PV range
- Solar/utility/battery hybrid supply for continuous power

Flexible, Battery-Optional

- Runs loads even without a battery
- Reliable cold-start capability

Intelligent Control & Monitoring

- Smart LCD setting
  (Working modes, Charge Current, Charge Voltage, etc).
- Support RS485,CAN monitoring function
- Can communicate with lithium batteries (CAN port)

Dual Output, Smarter Load Control

- Dual AC outputs for prioritized load management
  (Not available on 5248 series)
- Full protection: overload, short-circuit, deep-discharge

OEM Ready

- Customizable look & color
- Optional complete solar system packages

MUST®
Solar Power System

MAIN PARAMETER

MODEL	PV18-2012 PRO	PV18-3624 PRO	PV18-4024 PRO	PV18-5248 PRO	PV18-6048 PRO	PV18-6248 PRO
Nominal Battery System Voltage	12VDC	24VDC	24VDC	48VSC	48VDC	48VDC
INVERTER OUTPUT						
Dual output	yes	yes	yes	no	yes	yes
Rated Power	2000VA/2000W (Main+Second Load)	3600VA/3600W (Main+Second Load)	4000VA/4000W (Main+Second Load)	5200VA/5200W	6000VA/6000W (Main+Second Load)	6200VA/6200W (Main+Second Load)
Battery Mode	2000VA/1600W (Main+Second Load)	3000VA/3000W (Main+Second Load)	3500VA/3500W (Main+Second Load)	5200VA/5200W	5500VA/5500W (Main+Second Load)	6200VA/6200W (Main+Second Load)
Surge Power	3200W	6000W	7000W	10400W	11000W	12400W
Waveform	Pure sine wave					
AC Voltage Regulation (Batt.Mode)	230VAC±5% (Setting)					
Inverter Efficiency(Peak)	90~93%					
Transfer Time	10ms (UPS / VDE4105) / 20ms (APL)					
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	12VDC	24VDC	24VDC	48VDC	48VDC	48VDC
Floating Charge Voltage	13.7VDC	27.4VDC	27.4VDC	54.8VDC	54.8VDC	54.8VDC
Overcharge Protection	15VDC	30VDC	30VDC	60VDC	60VDC	60VDC
SOLAR CHARGER & AC CHARGER						
Maximum PV Array Open Circuit Voltage	400VDC	400VDC	450VDC	450VDC	450VDC	500VDC
Maximum PV Input Current	16A	18A	18A	27A	28A	28A
Charging Algorithm	3-Step (Flooded Battery, AGM / GEL / LEAD Battery), 4-Step (Li)					
Maximum PV Array Power	2000W	4000W	4000W	6000W	6000W	6200W
PV Array MPPT Voltage Range	30~320VDC		60~360VDC	150~430VDC	60~360VDC	120~450VDC
Maximum Solar Charge Current	80A	100A	100A	100A	100A	120A
Maximum AC Charge Current	80A	60A	60A	80A	100A	100A
Maximum Charge Current	80A	100A	100A	100A	100A	120A

OTHER PARAMETER

MODEL	PV18-2012 PRO	PV18-3624 PRO	PV18-4024 PRO	PV18-5248 PRO	PV18-6048 PRO	PV18-6248 PRO
Machine Dimension (W*H*D)(mm)	318*369.5*121.3	318*454.4*122.4		309*505*147	318*454.4*122.4	
Package Dimension (W*H*D)(mm)	460*205*415	544.5*210*410		603*260*400	544.5*210*410	
N.W (kg)	6.2	7.4	7.6	12.9	9.4	10.0
G.W (kg)	7.5	8.7	8.8	13.8	10.6	11.6
OTHER						
Humidity	5% to 95% Relative humidity (Non-condensing)					
Operating Temperature	-10°C~50°C					
Storage Temperature	-15°C~60°C					
Warranty	2 year					
Communication Interface	WIFI/RS-485/CAN			USB/WIFI/RS-485/CAN	WIFI/RS-485/CAN	USB/WIFI/RS-485/CAN
Anti-dust Kit	yes	yes	yes	yes	yes	yes
CERTIFICATION & STANDARDS						
CE						

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