

HIGH FREQUENCY SOLAR INVERTER

PH1900 EXP II Series

6/10KW | 500V | WIFI | Bluetooth| Dual output | Remote control

High Efficiency & High Power

- 6/10kW high-frequency inverter, compact, fast, and efficient
- Supports 500V PV input, compatible with mainstream high-power modules

Smart Display & Remote Control

- Color screen + LED indicators for clear status
- Detachable LCD module, remote control up to 40m

High-Voltage PV & Battery

- Max PV voltage 500V, wide range design
- Supports AC/PV lithium battery activation and Battery independency

Smart Load & Parallel Expansion

- Dual load outputs for flexible management
- Supports up to 6 units in parallel

Comprehensive Safety Protection

- Overload, short-circuit, and deep discharge protection
- Anti-backflow design (Meter/CT), optional AFCI function

Versatile Monitoring & Upgrades

- Supports multiple monitoring options: USB, RS485, CAN, WiFi, Bluetooth
- USB OTG and WiFi support online upgrades and data management

MUST®
Solar Power System

MAIN PARAMETER

MODEL	PH19-6048 EXP II	PH19-10048 EXP II
Default Battery System Voltage	48VDC	
INVERTER OUTPUT		
Rated Power	6000VA/6000W	10000VA/10000W
Surge Power	12000W	20000W
Waveform	Pure sine wave	
AC Voltage Regulation (Batt.Mode)	230VAC±5%(Setting)	
Inverter Efficiency(Peak)	93%	
Transfer Time	10ms(UPS / VDE4105) / 20ms(APL)	
AC INPUT		
Voltage	230VAC	
Selectable Voltage Range	170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VDE)	
Frequency Range	50Hz / 60Hz (Auto sensing)	
BATTERY		
Normal voltage	48VDC	
Floating Charge Voltage	54.8VDC	
Overcharge Protection	60VDC	
SOLAR CHARGER & AC CHARGER		
Maximum PV Array Open Circuit Voltage	500VDC	
Charging Algorithm	3-Step (Flooded Battery, AGM / GEL / LEAD Battery), 4-Step (Li)	
Maximum PV Array Power	80000W	6500W/6500W
Maximum PV input current	32A	27A*2 (MAX)
PV Array MPPT Voltage Range	90~430VDC	
Maximum Solar Charge Current	120A	150A
Maximum AC Charge Current	100A	150A
Maximum Charge Current	120A	150A

OTHER PARAMETER

MODEL	PH19-6048 EXP II	PH19-10048 EXP II
MECHANICAL SPECIFICATIONS		
Machine Dimension (W*H*D) (mm)	309*505*147	425*527*145
Package Dimension (W*H*D) (mm)	603*260*400	632*257*548
N.W (kg)	12.9	18.1
G.W (kg)	13.8	20.7

*Variations in dimensions and weights may occur due to production batches.

OTHER		
Humidity	5% to 95% Relativ Humidity (Non-condensing)	
Operating Temperature Range	-10°C~50°C	
Storage Temperature Range	-15°C ~60°C	
Warranty	2 year	

CERTIFICATION & STANDARDS

CE-EMC+LVD (EN6100-6-3:2007, EN6100-6-1:2017+EN IEC62109-1:2010, EN IEC62109-2:2011)
CE-LVD (IEC62109-1:2010, EN IEC62109-2:2011)
EN IEC62368-1:2018, EN IEC62109-1:2010, EN IEC62109-2:2011

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