HYBRID SOLAR INVERTER

PH1100 EU Series

5~10KW | Single Phase | IP66



Hybrid Energy Management

Integrates solar, battery, generator & grid for efficient use.

High-Current Power

220A fast charge/discharge for high-power loads demands.

Scalable Parallel Design

Up to 10 units in parallel for on/off-grid flexibility.

Smart Time Control

Six time slots for optimized charge/discharge scheduling.

Powerful & Compatible

Easily upgrades existing PV systems via AC coupling.

Rugged & Smart

IP66 protection with touch display and WiFi monitoring.

MUST®
Solar Power System

MAIN PARAMETER

MODEL	PH11-5KL1-EU	PH11-6KL1-EU	PH11-8KL1-EU	PH11-10KL1-EU
Rated power	5000W	6000W	8000W	10000W
BATTERY INPUT DATA				
Battery type	Lead-acid battery / Lithium battery			
Battery voltage	48V			
Battery voltage range	40~60V			
Charging curve	4-stage adaptive with maintenance/Equalization			
Maximum charging/discharging power	5000W	6000W	8000W	10000W
Maximum charging/discharging current	120A	150A	190A	220A
PV STRING INPUT DATA				
Max. DC Input Power	10000W	12000W	16000W	20000W
Maximum DC voltage	600V			
Full Load DC Voltage Range	250-540V	300-540V	285-540V	357-540V
Minimum voltage for grid connection	150V			
Maximum input current	20A/20A		36A/20A	
No.of MPP Trackers	2			
Input terminal type	H4/MC4			
AC INPUT/OUTPUT DATA				
Rated AC Input/Output Active Power	5000W	6000W	8000W	10000W
Max. AC Input/Output Apparent Power	5500VA	6600VA	8800VA	11000VA
Max. AC Input Power (grid to load)	10000W	12000W	16000W	20000W
Rated Input/Output Voltage/Range	220/230/240VAC			
Rated Input/Output Grid Frequency/Range	60Hz±5Hz/ 50Hz±5Hz			
Power Factor Adjustment Range	0.8 leading to 0.8 lagging			
Grid Type	Single phase			
DC Current Injection	0.5%			
EFFICIENCY				
Max. Efficiency	97.5%			
Euro Efficiency	96.5%			
MPPT Efficiency	99.5%			
PROTECTION				
Integrated	Islanding protection, Output overcurrent protection, Output overvoltage protection, DC switch rating for each MPPT, Grid monitoring, Output over current protection, Gird overvoltage protection-varistor, Integrated all-pole sensitive leakage current, ISO monitoring, over temperature protection.			
Surge Protection	AC Type III			
Overvoltage Category	AC Type III			

OTHER PARAMETER

MODEL	PH11-5KL1-EU	PH11-6KL1-EU	PH11-8KL1-EU	PH11-10KL1-EU
GENERAL DATA				
Operating Temperature Range (°C)	-25°C~+60°C, >45°C Derating			
Cooling	Intelligent Fan			
Noise (dB)	≤55dB			
Altitude	3000m, >3000mDerating			
Topology	Battery-side transformer isolation, PV-side non-transformer isolation			
Communication	USB/ WiFi/ Enternet(optional)			
Display	4.3-inch touch screen			
Protection Degree	IP66			
MECHANICAL SPECIFICATIONS				
Machine Dimension (W*H*D)(mm)	446*687*285 (excluding connectors and racks)			
Package Dimension (W*H*D)(mm)	567*404*816			
N.W(kg)	38 (Excluding Connectors and Brackets)			
G.W(kg)	42			
Warranty	5 Year the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy			

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

CERTIFICATION & STANDARDS

NBT32004-2013

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