

HYBRID SOLAR INVERTER

PH1100 EU Series

18~20KW | Three Phase | 380VAC | IP66 | WiFi



Homeload: Superior Load Capacity

Effortlessly powers pumps, motors, and other high-wattage appliances with stable and reliable continuous output.

High-Power Energy Support

350A continuous charge/discharge, up to 40kW PV input

Intelligent Power Management

Supports 6 Programmable Time-of-Use (ToU) Periods.

Powerful Parallel Scalability

Parallel up to 16 units in off-grid mode scale system capacity as needed to handle heavy loads with ease.

IP66-Rated Robust Protection

Defies water and dust, ensuring stable operation in the harshest environments.

Large Touchscreen Display

Intuitive operation with versatile connectivity (GPRS, Wi-Fi, Bluetooth, RS485) for smart, centralized system control.



MAIN PARAMETER

MODEL	PH11-18KL3-EU	PH11-20KL3-EU
Rated power	18000W	20000W
BATTERY INPUT DATA		
Battery type	Lead-acid battery / Lithium battery	
Battery voltage	48V	
Charging curve	4-stage adaptive with maintenance/Equalization	
Max. Charging/ Discharging Power	36000W	40000W
Max. Charge/ Discharge Current	330A	350A
PV STRING INPUT DATA		
Max. DC Input Power	36000W	40000W
Maximum DC voltage	800V	
Minimum voltage for grid connection	160V	
Full Load DC Voltage Range	500V~650V	555V~650V
MPPT voltage range	200~650V	
Maximum input current	36A+36A	36A+36A
No.of MPPT tracker	2	
Strings per MPPT tracker	2	
AC INPUT/OUTPUT DATA		
Rated AC Input/ Output Power	18000W	20000W
Max AC Input/ Output Power	19800W	22000W
Max. AC Input Power (grid to load)	36000W	40000W
Power Factor Adjustment Range	0.8 leading to 0.8 lagging	
Rated Input/Output Voltage	220/380,230/400Vac	
Rated Input/Output Grid Frequency	60Hz±5Hz/50Hz±5Hz	
Grid Type	Three Phase	
DC Current Injection	0.5%	
EFFICIENCY		
Max. Efficiency	97.5%	
Euro Efficiency	96.5%	
MPPT Efficiency	99.5%	
PROTECTION		
Integrated	Anti-islanding Protection, Output Overcurrent Protection, Output Overvoltage Protection, PV Reverse Polarity Protection, PV Reverse Polarity Protection (Optional), Grounding Fault Detection, Integrated Residual Current Monitoring Unit (RCMU)	

OTHER PARAMETER

MODEL	PH11-18KL3-EU	PH11-20KL3-EU
GENERAL DATA		
Operating Temperature Range	-25°C to +60°C, >45°C Derating	
Cooling	Intelligent Fan Cooling	
Noise	≤60dB	
Communication	USB/ WI-FI/ Ethernet (optional)	
Communication with BMS	RS485/CAN	
Machine Dimension (W*H*D)(mm)	446*740*261 (excluding connectors and racks)	
Package Dimension (W*H*D)(mm)	/	
N.W(kg)	50	
G.W(kg)	/	
Protection Degree	IP66	
Installation Style	Wall-mounted	
Warranty	5 Years	
	the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy	
CERTIFICATION & STANDARDS		
NBT32004-2013		