

HYBRID SOLAR INVERTER

PH1100 EU Series

5~16KW | Three Phase | 380VAC | IP66



All-Scenario Hybrid Power

- Max. 16pcs parallel for on-grid and off-grid operation
- AC coupling upgrade for existing solar systems

Powerful Three-Phase Output

- 100% unbalanced three-phase output for stable loads
- 320A high-current charge/discharge for instant power demand

Flexible Multi-Energy Input

- Supports diesel generator storage for uninterrupted power
- CT connection enables anti-backflow protection

High-Level Safety Design

- 48V low-voltage battery with transformer isolation
- IP66 waterproof and dustproof for outdoor use

Smart Energy Management

- 6 configurable charge/discharge time segments for peak shaving
- Built-in WiFi monitoring for real-time system control



MAIN PARAMETER

MODEL	PH11-5KL3-EU	PH11-6.5KL3-EU	PH11-8KL3-EU	PH11-10KL3-EU	PH11-12KL3-EU	PH11-13KL3-EU	PH11-14.2KL3-EU	PH11-15KL3-EU	PH11-16KL3-EU	
Rated power	5000W	6500W	8000W	10000W	12000W	13000W	14200W	15000W	16000W	
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	5000W	6500W	8000W	10000W	12000W	13000W	14200W	15000W	16000W	
Max. Charge/Discharge Current	120A	150A	190A	210A	240A	260A	280A	300A	320A	
PV STRING INPUT DATA										
Max. DC Input Power	10000W	13000W	16000W	20000W	24000W	26000W	28400W	30000W	32000W	
Maximum DC voltage	800V									
Minimum voltage for grid connection	200V									
Full Load DC Voltage Range	395V~650V	500V~650V	400V~650V	357V~650V	429V~650V	464V~650V	507V~650V	536V~650V	571V~650V	
MPPT voltage range	200~650V									
Maximum input current	13A+13A		20A+20A		36A+20A					
No.of MPPT tracker	2									
Strings per MPPT tracker	2/1									
AC INPUT/OUTPUT DATA										
Rated AC Input/ Output Power	5000W	6500W	8000W	10000W	12000W	13000W	14200W	15000W	16000W	
Max AC Input/ Output Power	5500VA	7150VA	8800VA	11000VA	13200VA	14300VA	15620VA	16500VA	17600VA	
Max. AC Input Power (grid to load)	10000W	13000W	16000W	20000W	24000W	26000W	28400W	30000W	32000W	
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	97.6%							97.5%		
Euro Efficiency	97.0%							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, Grid overvoltage protection-varistor, Integrated all-pole sensitive leakage current, ISO monitoring, over temperature protection.									

OTHER PARAMETER

MODEL	PH11-5KL3-EU	PH11-6.5KL3-EU	PH11-8KL3-EU	PH11-10KL3-EU	PH11-12KL3-EU	PH11-13KL3-EU	PH11-14.2KL3-EU	PH11-15KL3-EU	PH11-16KL3-EU
GENERAL DATA									
Operating Temperature Range	-25°C to +60°C, >45°C Derating								
Cooling	Intelligent Fan								
Noise	≤55dB								
Communication with BMS	RS485/CAN								
Machine Dimension (W*H*D)(mm)	446*692*260 (excluding connectors and racks)								
Package Dimension (W*H*D)(mm)	567*816*404								
N.W(kg)	38 (Excluding Connectors and Brackets)								
G.W(kg)	42								
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

CE-EMC+LVD (EN6100-6-3, EN6100-6-1+EN IEC 62109-1, EN IEC 62109-2); CE-LVD(EN 62477-1); IEC 60529; EN50549-1; Poland Type A, (NC RfG:2016, PSE:2018, PTPiREE:2021)C10/C11; UNE217001-2020; UNE217002-2020, NTS-631 (Type A); G98+G99