

HYBRID SOLAR INVERTER PH1100 EU Series

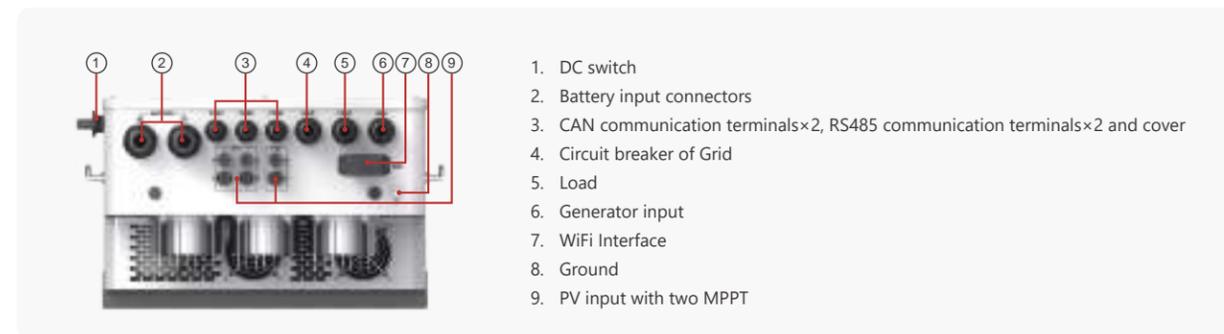
13~16KW | Three Phase | 380VAC | IP66

The PH1100 EU series is a three-phase on/off-grid bidirectional energy storage inverter with a compact design and high power density. It supports lithium and lead-acid batteries, provides a stable 380V/400V three-phase output, and features remote monitoring and multiple safety protections. It is widely used in home energy storage, small commercial energy storage, smart microgrids, and off-grid power supply in remote areas.

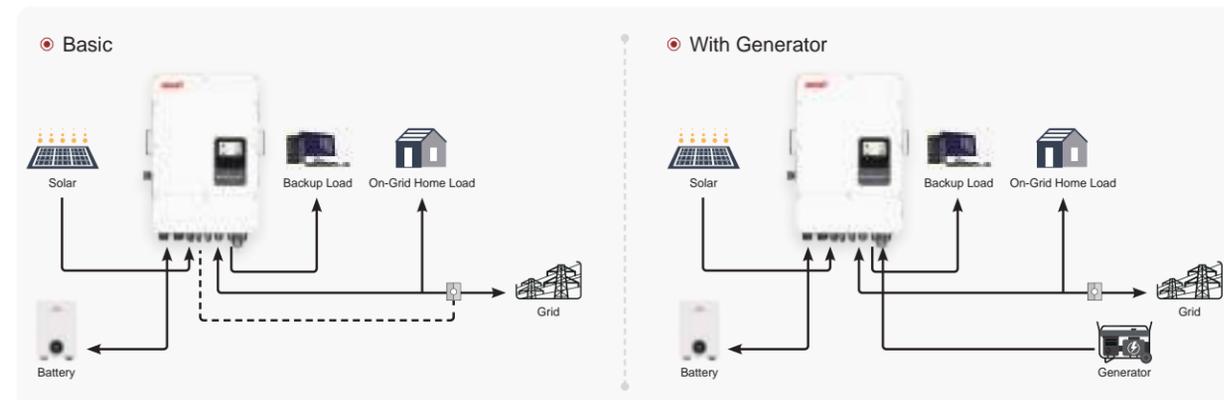


- 100% unbalanced output
- Max. 6 pcs parallel for on-grid and off-grid operation
- AC couple to retrofit existing solar system
- Support multiple batteries parallel
- Max. charging/discharging current of 320A
- Support storing energy from diesel generator
- 48V low voltage battery, transformer isolation design
- IP66 water-proof and dust-proof
- "Time of use" function: a maximum of 6 time segments can be set
- Wifi monitoring

Back panel description



Solar system connection



MODEL	PH11-13KL3-EU	PH11-14KL3-EU	PH11-15KL3-EU	PH11-16KL3-EU
Rated power	13000W	14000W	15000W	16000W
BATTERY INPUT DATA				
Battery type	Lead-acid battery / Lithium battery			
Battery voltage	48V			
Battery voltage range	40~64V			
Charging curve	4-stage adaptive with maintenance/Equalization			
Charging Strategy for Li-Ion Battery	Self-adaption to BMS			
Over-current protection/ Over-temperature protection	Yes / Yes			
Maximum charging/discharging power	13000W	14000W	15000W	16000W
Maximum charging/discharging current	260A	280A	300A	320A
PV STRING INPUT DATA				
Max. DC Input Power	16900W	18200W	19500W	20800W
Rated PV Input Voltage	370V			
Maximum DC voltage	800V			
Start-up Voltage	125V			
Minimum voltage for grid connection	200V			
Full Load DC Voltage Range	352~650V	379~650V	406~650V	433~650V
Enter high voltage error recovery point	800V			
MPPT voltage range	150~800V			
Maximum input current	32A/16A	32A/16A	32A/16A	32A/16A
No.of MPP Trackers	3	3	3	3
Input terminal type	H4/MC4			
AC INPUT/OUTPUT DATA				
Rated AC Input/ Output Power	13000W	14000W	15000W	16000W
Max AC Input/ Output Power	13000W	14000W	15000W	16000W
AC Input/ Output Rated Current	19.7A/18.8A	21.2A/20.3A	22.7A/21.7A	24.2A/23.2A
Max. Three-phase Unbalanced Output Current	29.5A/28.2A	31.8A/30.4A	34A/32.5A	36.3A/34.8A
Power Factor Adjustment Range	0.8 leading to 0.8 lagging			
Rated Input/Output Voltage	230/380VAC			
Rated Input/Output Grid Frequency Range	60Hz±5Hz/50Hz±5Hz			
Grid Type	Three Phase			
Total Harmonics Current Distortion (THDi)	<3% (of nominal power)			
DC Current Injection	<0.5% In			
EFFICIENCY				
Max. Efficiency	97.5%			
Euro Efficiency	96.5%			
Euro Efficiency	99.5%			
PROTECTION				
Integrated	Islanding protection, PV input polarity reverse protection, insulation resistance detection, surge protection, leakage current monitoring protection, output current protection, output short circuit protection, output overvoltage protection			
Surge Protection	DC Type III/AC Type III			
Overvoltage Category	DC Type II/AC Type III			
GENERAL DATA				
Operating Temperature Range (°C)	-25°C to +60°C, >45°C Derating			
Cooling	Fan cooling			
Noise (dB)	≤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			
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				
NBT32004-2013				

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