

## **ON/OFF GRID HYBRID SOLAR INVERTER PH1100 EU Series**

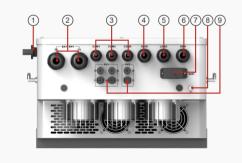
## 8~12KW | Three Phase | 230VAC

PH1100 EU is brand new three phase hybrid inverter with low battery voltage 48V, ensuring system safe and reliable. With compact design and high-power density, this series supports 1.3 DC/AC ratio, saving device investment. It supports three phase unbalanced output, extending the application scenarios. Equipped with CAN port (x2) BMS and parallel, x1 RS485 port for BMS, x1 RS232 port for remotely control, x1 DRM port, which makes the system smart and flexible.

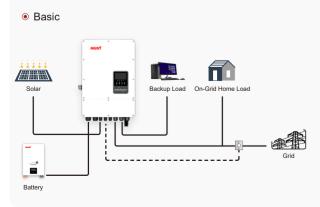


- 100% unbalanced output, each phase; Max. output up to 50% rated power
- Max. 10 pcs parallel for on-grid and off-grid operation
- AC couple to retrofifit existing solar system
- Support multiple batteries parallel
- Max. charging/discharging current of 240A
- Support storing energy from diesel generator
- 48V low voltage battery, transformer isolation design
- IP65 water-proof and dust-proof
- 6 time periods for battery charging/discharging
- Wifi monitoring

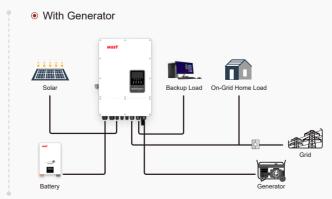
## **Back panel description**



## Solar system connection



- 1. DC switch 2. Battery input connectors
- 3. BTS terminals, BMS terminals, load monitor terminals, dry contact terminals, CAN communication terminals, USB terminal and cover
- 4. Circuit breaker of Grid
- 5. Load
- 6. Generator input
- 7. WiFi Interface
- 8. Ground
- 9. PV input with two MPPT



MODEL	PH1100-8KL3-EU	PH1100-10KL3-EU	PH1100-12KL3-EU
Rated power	8000	100000	120000
Battery Input Data			
Battery type		Lead-acid battery / Lithium battery	/
Battery voltage	48V		
Battery voltage range	40~60V		
Charging curve	3-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	8000W	10000W	12000W
Maximum charging/discharging current	190A	210A	240A
PV String Input Data			
Max. DC Input Power	10400W	13000W	15600W
Rated PV Input Voltage		550V	
Maximum DC voltage		800V	
Start-up Voltage		160V	
Minimum voltage for grid connection		310V	
Full Load DC Voltage Range		350-650V	
Enter high voltage error recovery point		800V	
MPPT voltage range		200~650V	
Maximum input current	13A/13A	26A/13A	26A/13A
No.of MPP Trackers		2	
No.of Strings per MPP Tracker	1+1	2+1	2+1
AC Output Data			
Rated AC Output Power	8000W	10000W	12000W
Max AC Output Power	8800W	11000W	13200W
AC Output Rated Current	12.1/11.6A	15.2/14.5A	18.2/17.4A
Max AC Output Current	13.4/12.8A	16.7/15.9A	20/19.1A
Max. Three-phase Unbalanced Output Current	18.2/17.4A	22.7/21.7A	27.3/26.1A
Power Factor Adjustment Range	0.8 leading to 0.8 lagging		
Rated Input/Output Voltage	220/380,230/400Vac		
Rated Input/Output Grid Frequency/Range	50/60;45~55/55-65		
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	97.0%		
Protection			
Integrated	PV Arc Fault Detection, Anti-islanding Protection, PV String Input Reverse Polarity Protection Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection Output Shorted Protection		
Surge Protection	DC Type III/AC Type III		
Overvoltage Category	DC Type II/AC Type III		
General Data			
Operating Temperature Range (°C)	-20°C to +60°C, >45°C Derating		
Cooling	Smart cooling		
Noise (dB)	≤55dB		
Communication with BMS	Wi-Fi/USB/GPRS/RS485/CAN		
Weight (kg)	35		
Cabinet Size (WxHxD mm)	444*654.2*259.2		
Protection Degree	IP65		
Installation Style		Wall-mounted	
Warranty	the Warranty Period Depends the F	5 Years Final Installation Site of Inverter, More In	nfo Please Refer to Warranty Poli
Certification & Standards			
Grid Regulation	CE-EMC+LVD (EN6100-6-3:2007, EN6100-6-1:2017+EN IEC 62109-1:2010, EN IEC 6210 2:2011); CE-LVD(EN 62477-1:2022) ; IEC 60529; EN50549-1:2019; Poland Type Aand B, (NC RfG:2016, PSE:2018, PTPiREE:2021) C10/C11; UNE217001-2020; UNE217002-2020, NTS-631:2021 (Type A); G98+G99+G100		

