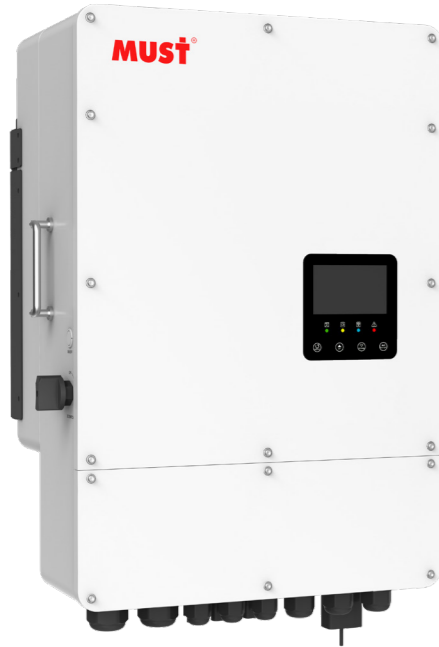


SINGLE PHASE HYBRID INVERTER PH1100 EU Series

8~12KW | Single Phase | IP65

The PH1100 EU Series single-phase hybrid inverter is the ideal gateway to an all-round energy transition in the home. As a PV and battery inverter in one, it ensures a reliable and sustainable supply of energy. The power range is from 8kW to 12kW, compatible with low voltage (40-60V) batteries. Energy management is based on time-of-use and demand charge rate structures, which significantly reduce the amount of energy purchased from the public grid.

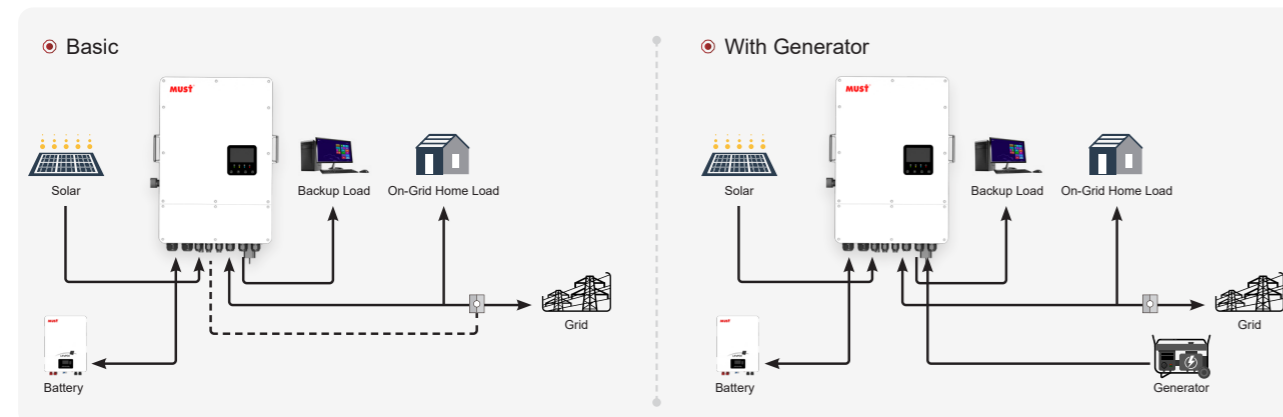


- Colorful touch LCD
- IP65 protection degree
- Max. charging/discharging current of 250A
- Ac coupling to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation
- Support multiple batteries parallel
- 6 time periods for battery charging/discharging
- Support storing energy from diesel generator
- Wifi monitoring

Back panel description

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

Solar system connection



MODEL	PH11-8KL1-EU	PH11-10KL1-EU	PH11-12KL1-EU
Rated power	8000W	10000W	12000W
BATTERY INPUT DATA			
Battery type	Lead-acid battery / Lithium battery		
Battery voltage range	40~60V		
Max. Charging Current	190A	220A	250A
Max. Discharging Current	190A	220A	250A
External Temperature Sensor	Yes		
Charging Curve	3 Stages / Equalization		
Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
PV STRING INPUT DATA			
Max. DC Input Power	10400W	13000W	15600W
PV Input Voltage(V)	370V (125V~500V)		
MPPT Range(V)	150~425V		
Full Load DC Voltage Range	200~425V		
Start-up Voltage(V)	125V		
PV Input Current(A)	20+20	26+26+26	26+26+26
No. of MPPT Trackers	2	3	3
No. of Strings Per MPPT Tracker	1+1	1+1+1	1+1+1
AC INPUT/OUTPUT DATA			
Rated AC Output Power	8000W	10000W	12000W
Max AC Output Power	8800W	11000W	13200W
AC Input/Output Rated Current	36.4/34.8A	45.5/43.5A	54.6/52.2A
Max.AC Input/Output Current	40/38.3A	50/47.9A	60/57.4A
Max Continuous AC Passthrough	50A	60A	60A
Peak Power (off grid)	2 times of rated power, 10 S		
Power Factor	0.8 leading - 0.8 lagging		
AC Output Frequency and Voltage	50/60Hz; 220/230Vac		
Grid Type	Single Phase		
Total Harmonic Distortion (THDi)	<3% (of nominal power)		
DC Current Injection	<0.5% (Rated Current)		
EFFICIENCY			
Max. Efficiency	97.6%		
Euro Efficiency	96.5%		
MPPT Efficiency	>99%		
PROTECTION			
Integrated	PV Arc Fault Detection, PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Over Voltage Category		
Surge Protection	DC Type II/ AC Type III	DC Type II/ AC Type II	DC Type II/ AC Type II
Oversoltage Category	DC Type II/ AC Type III	DC Type II/ AC Type III	DC Type II/ AC Type III
GENERAL DATA			
Operating Temperature Range	-40~60°C, >45°C Derating		
Cooling	Smart cooling		
Noise	≤55dB		
Communication with BMS	RS485/CAN		
Monitoring mode	WiFi/ APP		
Machine Dimension (W*H*D)(mm)	426*526*255 (Excluding connectors and brackets)	446*576*254 (Excluding connectors and brackets)	
Package Dimension (W*H*D)(mm)	/	/	
N.W(kg)	29	31	
G.W(kg)	/	/	
Protection Degree	IP65		
Installation Style	Wall-mounted		
Warranty	5 Year		
CERTIFICATION & STANDARDS			
Grid Regulation: IEC 61727/IEC 62116, EN 50549-1; Safety EMC / Standard: IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			

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