

HIGH VOLTAGE HYBRID SOLAR INVERTER PH1100 EU Series

20-50KW | Three Phase | 380VAC

PH1100 EU series Solar inverter that can connect solar panels and a high voltage battery. This inverter will capture the solar during the day and provide power for your home requirements and charge the battery. At night it will use the battery to satisfy your home requirements. This will prevent you from using any power from the grid and save you from ever paying them a cent.

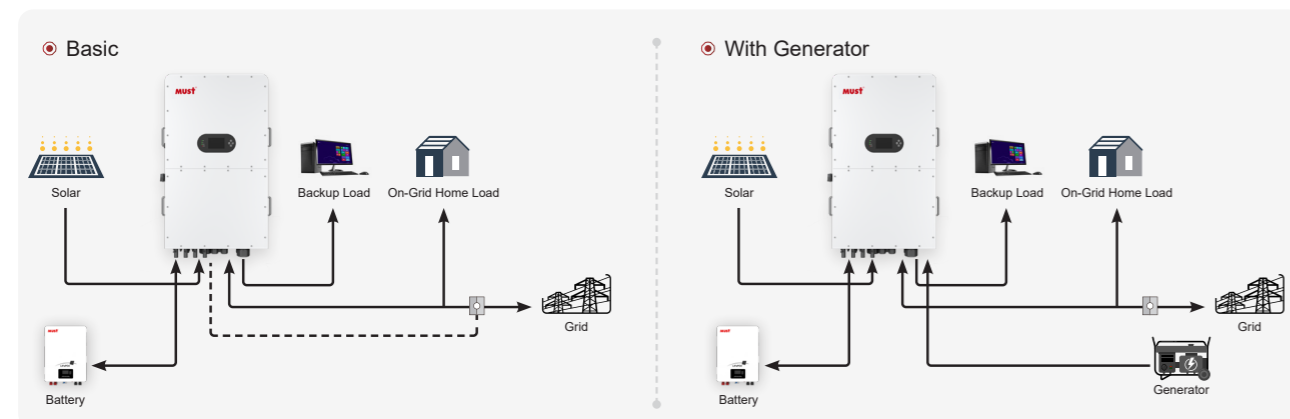


- Voltage Battery for High Efficiency Operation
- Maximum Charge and Discharge up to 240A
- IP65 Indoor & Outdoor use
- Colorful Touch Screen
- Supports Parallel Connection of Multiple Batteries
- Supports Charging and Discharging in 6 Time Periods
- Monitoring & Remote Upgrade with Wifi Module
- Support Storing Energy from Diesel Generator without External Converter
- 100% Three-Phase Unbalanced Output, Each Phase Output up to 50% of Rated Power
- AC couple to retrofit existing solar system
- Max.Supports up to 10 Units in Parallel for Both On-grid and Off-grid Operation

Back panel description

1. Battery 1 connectors
2. Battery 2 connectors
3. Communication 1 terminals
4. Communication 2 terminals
5. Communication 3 terminals
6. Generator connectors
7. Grid connectors
8. WiFi Interface
9. Load connectors
10. PV 3 input terminals
11. PV 4 input terminals
12. PV 2 input terminals
13. PV 1 input terminals

Solar system connection



MODEL	PH11-20KL3-EU-HV	PH11-30KL3-EU-HV	PH11-50KL3-EU-HV
PV STRING INPUT			
Max. DC Input Power	26000W	39000W	65000W
Max. DC Input Voltage		1000V	
Start-up Voltage		180V	
MPPT Range		150-850V	
Full Load MPPT Voltage Range	325-850V	450-850V	450-850V
Rated DC Input Voltage		600V	
PV Input Current	26A+26A	36A+36A+36A	36A+36A+36A+36A
Max. PV Isc	39A+39A	55A+55A+55A	55A+55A+55A+55A
No.of MPPT Trackers	2	3	4
No.of Strings per MPPT Tracker	2+2	2+2+2	2+2+2+2
AC OUTPUT			
Rated AC Output Power	20000W	30000W	50000W
Max. AC Output Power	22000W	33000W	55000W
AC Output Rated Current	30.4A	45.6A	76.0A
Max. AC Output Current	33.4A	50.2A	83.6A
Max. Three-phase Unbalanced Output Current	44.7A	60A	83.3A
Max. Continuous AC Passthrough	80A	118A	197A
Peak Power (Off Grid)	1.5 times of rated power, 10s		
Generator Input/Smart Load/AC Couple Current	30.4A/A80A/ 30.4A	45.4A/ 118A/ 45.4A	76A/ 197A/ 76A
Power Factor	0.8 leading - 0.8 lagging		
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380Vac 230/400Vac		
Grid Type	Three Phase		
Total Harmonics Current Distortion (THDi)	<3% (of nominal power)		
DC Current Injection	<0.5% In		
BATTERY			
Battery Type	Lithium-ion		
Battery Voltage Range	160-700V		
Max. Charging Current	37A+37A	50A+50A	
Max. Discharging Current	37A+37A	50A+50A	
Number of Battery Input	1	2	
Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
EFFICIENCY			
Max. efficiency	97.6%		
Euro efficiency	97.0%		
MPPT efficiency	99.9%		
PROTECTION			
Anti-islanding Protection	Yes		
PV String Input Reverse Polarity Protection	Yes		
Insulation Resistor Detection	Yes		
Residual Current Monitoring Unit	Yes		
Output Over Current Protection	Yes		
Output Shorted Protection	Yes		
Surge Protection	Yes		
Arc Fault Circuit Interruption (AFCI optional)	Yes		
Over Voltage Category	DC Type II/AC Type III		
GENERAL DATA			
Operating Temperature Range	-25 °C ~ +60 °C	-40-60□, > 45°C Derating	
Cooling	Smart Cooling		
Noise (dB)	≤45 dB	≤65 dB	
Communication with BMS	CAN		
Monitoring mode	WIFI□APP		
Weight (kg)	30	82	
Size (WxHxD mm Excluding Connectors and Brackets)	408*638*237	527*894*294	
Ingress Protection	IP65		
Installation Style	Wall-mounted		
Warranty	5 Years (10 Years Optional)		
CERTIFICATION & STANDARDS			
IEC61727/62116, EN50549-1			
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