

## HYBRID SOLAR INVERTER PH1100 US-G2 Series



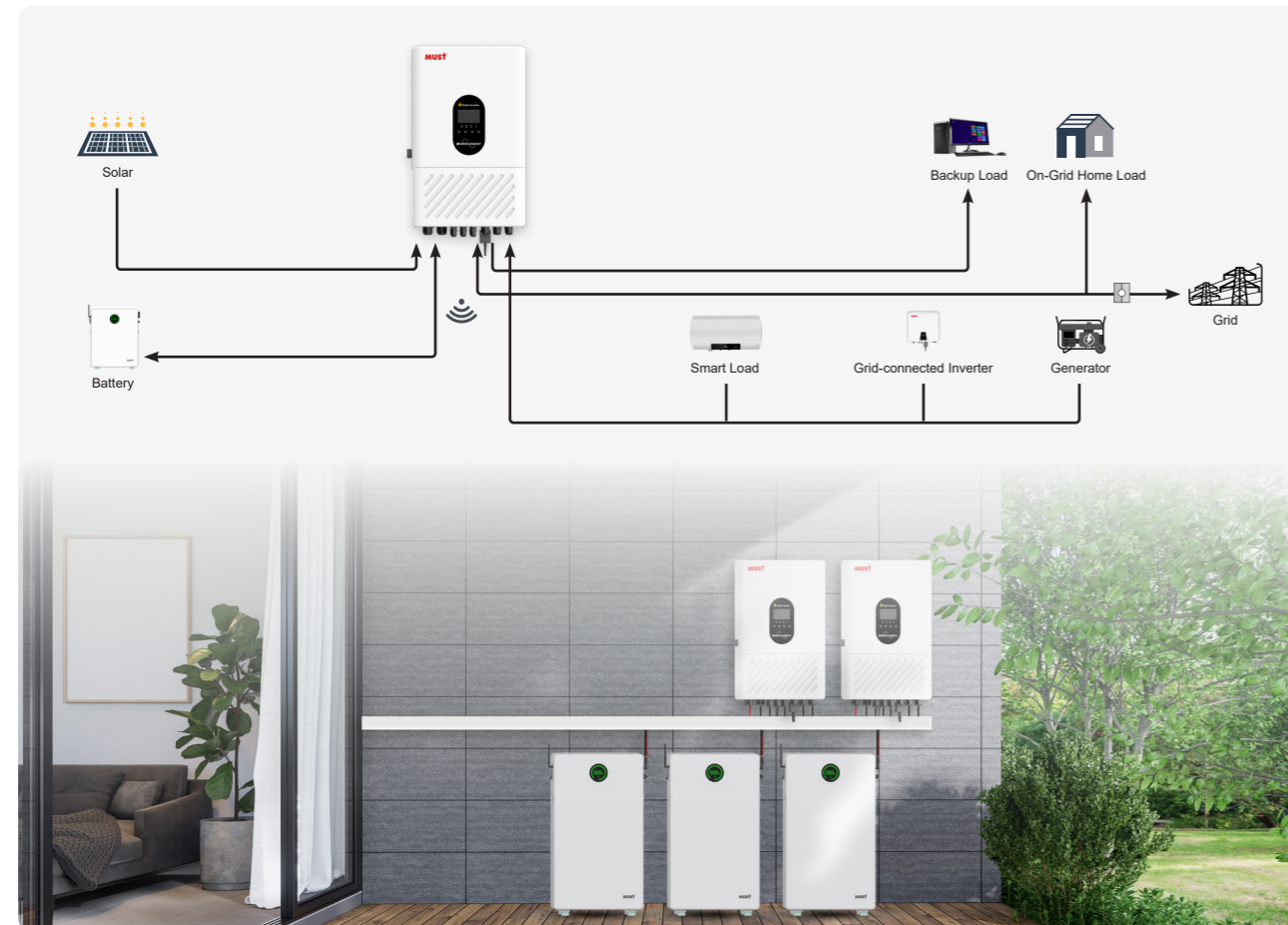
5~12KW | Split Phase | AC 120V/240V | IP66

PH1100 US-G2 is brand new split phase hybrid inverter with low battery voltage 48V, ensuring system safe and reliable. With compact design and high-power density, this series supports 1.5 DC/AC ratio, saving device investment. It supports lithium and lead-acid batteries, provides a stable 120V/240V split 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.



- 120V/240V split-phase pure sine wave inverter
- 100% unbalanced output
- Max. 10 pcs parallel for on-grid and off-grid operation
- Support storing energy from diesel generator
- IP66 water-proof and dust-proof
- AC couple to retrofit existing solar system
- Peak shifting and valley filling applications can be carried out according to time
- Wifi monitoring
- Multiple operating modes available: household load, battery storage, grid-connected power supply, etc.
- Settable anti-back flow function

### Solar system connection



MODEL	PH11-5KL2-US-G2	PH11-6KL2-US-G2	PH11-7.6KL2-US-G2	PH11-8KL2-US-G2	PH11-10KL2-US-G2	PH11-12KL2-US-G2
Rated power	5000W	6000W	7600W	8000W	10000W	12000W
<b>BATTERY INPUT DATA</b>						
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	5000W	6000W	7600W	8000W	10000W	12000W
Maximum charging/discharging current	120A	135A	190A	190A	220A	250A
<b>PV STRING INPUT DATA</b>						
Max. DC Input Power	7500W	9000W	11400W	12000W	15000W	18000W
Maximum DC Input Power of each	7500W	9000W	11400W	12000W	12000W	12000W
Maximum DC voltage	600V					
Start-up Voltage	125V					
Full Load DC Voltage Range	187~540V	225~540V	220~540V	230~540V	192~540V	230~540V
Rated PV Input Voltage	370V					
PV Maximum Input Current	20A+20A		26A+26A		26A+26A+26A	
PV Maximum Short Circuit Current	44A+44A		44A+44A		44A+44A+44A	
MPPT quantity	2		2		2	
Number Of MPPT Strings Per Channel			2+2		2+2+2	
<b>AC INPUT/OUTPUT DATA</b>						
Rated AC Input/output active power	5000W	6000W	7600W	8000W	10000W	12000W
Max. AC Input/output apparent power	5500VA	6600VA	8360VA	8800VA	11000VA	13200VA
Rated AC Input/output current	20.9A	25A	31.7A	33.4A	41.7A	50A
Max. AC Input/output current	22.9A	27.5A	34.8A	36.7A	45.8A	55A
Max. Continuous AC passthrough (grid to load)	35A	40A	50A	50A	60A	60A
Rated Input/output voltage/ range	120V/240V:208V					
Rated Input/output grid frequency/ range	60Hz±5Hz/ 50Hz±5Hz					
Rated output power factor	1					
Power factor adjustment range	0.8 leading to 0.8 lagging					
Total Harmonics Current Distortion (THDi)	<3%					
Grid Type	Split Phase					
DC Current Injection	<0.5%					
<b>PROTECTION</b>						
Integrated	Islanding protection, Output overcurrent protection, Output overvoltage protection, PV input polarity reverse protection, DC Switch (optional), Ground Fault Sensing, leakage current monitoring protection					
Surge Protection	DC Type III/ AC Type III					
Overvoltage Category	DC Type II/ AC Type III					
<b>GENERAL DATA</b>						
Operating Temperature Range (°C)	-25°C~+60°C, >45°C Derating					
Cooling	Intelligence Fan					
Noise (dB)	≤52dB					
Altitude	3000m, >3000m Derating					
Topology	Battery-side transformer isolation, PV-side non-transformer isolation					
Communication	USB/ WiFi/ Ethernet(optional)					
Display	4.3-inch touch screen					
Protection Degree	IP66					
Installation Style	Wall-mounted					
<b>MECHANICAL SPECIFICATIONS</b>						
Machine Dimension (W*H*D)(mm)	482*770*288 (excluding connectors and racks)					
Package Dimension (W*H*D)(mm)	816*404*567					
N.W(kg)	38					
G.W(kg)	42					
Warranty	5 year (the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy)					
<b>CERTIFICATION &amp; STANDARDS</b>						
Rohs; CE-EMC; CE-LVD (62109-1/-2); INMETRO(Brazil); NBT32004-2013; UL1741; FCC						

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