PRODUCTS- 120V/ 240V



SPLIT-PHASE HYBRID SOLAR INVERTER PH1100 US Series

5~10KW | Split Phase | AC 120V/240V | IP66

PH1100 US 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 1.3 DC/AC ratio, saving device investment. it's applicable to 110VAC/120VAC markets demands, which matches AC 110VAC/120V single phase, or two phase 220V/240V; 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.



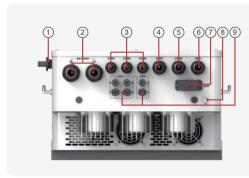






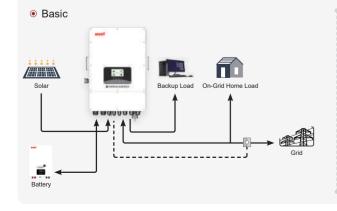
- 100% unbalanced output, each phase max. output up to 50% rated power
- Max. 6 pcs parallel for on-grid and off-grid operation
- AC couple to retrofifit existing solar system
- Support multiple batteries parallel
- Max. charging/discharging current of 220A
- Support storing energy from diesel generator
- 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

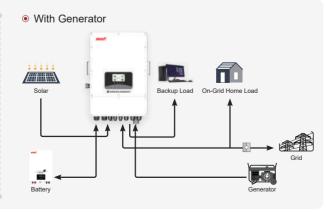
Back panel description



- 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

Solar system connection







MODEL	PH11-5KL2-US	PH11-6KL2-US	PH11-8KL2-US	PH11-10KL2-
Rated power	5000W	6000W	8000W	10000W
BATTERY INPUT DATA				
Battery type	Lead-acid battery / Lithium battery			
Battery voltage	48V			
Battery voltage range	40~64V			
Charging curve	3-stage adaptive with maintenance/Equalization			
Charging Strategy for Li-lon Battery	Self-adaption to BMS			
Over-current protection/ Over-temperature protection	Yes / Yes			
Maximum charging/discharging power	5000W	6000W	8000W	10000W
Maximum charging/discharging current	110A	130A	170A	220A
PV STRING INPUT DATA				
Max. DC Input Power	6500W	7800W	10400W	13000W
Maximum DC voltage		60	OV	
Start-up Voltage	125V			
Full Load DC Voltage Range	150~500V			
Rated PV Input Voltage	370V			
Minimum voltage for grid connection	150V			
Enter high voltage error recovery point		60	OV	
Maximum input current	16A/16A	16A/16A	32A/16A	32A/16A
No.of MPP Trackers	2	2	2	2
Input terminal type		H4/I	MC4	
AC INPUT/OUTPUT DATA				
Rated AC Input/ Output Power	5000W	6000W	8000W	10000W
Max AC Input/ Output Power	5000W	6000W	8000W	10000W
AC Input/ Output Rated Current	20.8A/19.2A	25A/23A	33.3A/30.7A	41.6A/38.4A
Rated Input/Output Voltage/Range		120V/24	0V: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%			
EFFICIENCY				
Max. Efficiency	97.5%			
Euro Efficiency	96.5%			
MPPT Efficiency	99.5%			
PROTECTION				
Integrated	Islanding protection, Output overcurrent protection, Output overvoltage protection, PV input polarity reverse protection, DC Switch (optional), Ground Fault Sensing, leakage current monitoringprotection			
Surge Protection	DC Type III/AC Type III			
Overvoltage Category	DC Type II/AC Type III			
GENERAL DATA				
Operating Temperature Range (°C)	-25°C~+60°C, >45°C Derating			
Cooling	Fan cooling			
Noise (dB)	≤50dB			
Altitude	3000m, >3000mDerating			
Topology	Battery-side transformer isolation, PV-side non-transformer isolation			
Communication	USB/ WiFi/ Enternet(optional)			
Display	4.3-inch touch screen			
Protection Degree	IP66			
Installation Style		Wall-m	ounted	
MECHANICAL SPECIFICATIONS				
Machine Dimension (W*H*D)(mm)		446*692*260 (excluding	connectors and racks)	
Package Dimension (W*H*D)(mm)	816*404*567			
N.W(kg)	38			
G.W(kg)	42			
			ear	

CERTIFICATION & STANDARDS

NBT32004-2013

 ${}^{*}\mathsf{The}$ technical specifications of this document are subject to change without any notice