

HYBRID SOLAR INVERTER

PH1100 US-G2 Series

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



Split-Phase Pure Sine Wave

120V/240V output with 100% unbalanced load support

Parallel Operation

Up to 10 units in parallel for on-grid & off-grid use

Multi-Source Energy Storage

Supports solar, grid, and diesel generator input

IP66 Protection

Waterproof and dustproof for outdoor applications

AC-Coupled Retrofit

Easily integrates with existing solar systems

Smart Energy Control

Peak shifting, anti-backflow, and WiFi monitoring



MAIN PARAMETER

MODEL	PH11-5KL2-US-G2	PH11-6KL2-US-G2	PH11-7.5KL2-US-G2	PH11-7.6KL2-US-G2	PH11-8KL2-US-G2	PH11-10KL2-US-G2	PH11-12KL2-US-G2
Rated power	5000W	6000W	7500W	7600W	8000W	10000W	12000W
BATTERY INPUT DATA							
Battery type	Lead-acid battery / Lithium battery						
Battery voltage	48V						
Charging Strategy for Li-Ion Battery	Self-adaption to BMS						
Maximum charging/discharging power	5000W	6000W	7500W	7600W	8000W	10000W	12000W
Maximum charging/discharging current	120A	135A	190A	190A	190A	220A	250A
PV STRING INPUT DATA							
Max. DC Input Power	7500W	9000W	11250W	11400W	12000W	15000W	18000W
Maximum DC Input Power of each	7500W	9000W	11250W	11400W	12000W	12000W	12000W
Maximum DC voltage	600V						
Start-up Voltage	125V						
Full Load DC Voltage Range	187~540V	225~540V	216~540V	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			3	
Number Of MPPT Strings Per Channel	2+2					2+2+2	
AC INPUT/OUTPUT DATA							
Rated AC Input/output active power	5000W	6000W	7500W	7600W	8000W	10000W	12000W
Max. AC Input/output apparent power	5500VA	6600VA	8250VA	8360VA	8800VA	11000VA	13200VA
Rated AC Input/output current	20.9A	25A	31.3A	31.7A	33.4A	41.7A	50A
Max. AC Input/output current	22.9A	27.5A	34.4A	34.8A	36.7A	45.8A	55A
Max. Continuou AC passthrough (grid to load)	35A	40A	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 Hamonics CurentDistortion (THDi)	<3%						
Grid Type	Split Phase						
DC Current Injection	<0.5%						

OTHER PARAMETER

MODEL	PH11-5KL2-US-G2	PH11-6KL2-US-G2	PH11-7.5KL2-US-G2	PH11-7.6KL2-US-G2	PH11-8KL2-US-G2	PH11-10KL2-US-G2	PH11-12KL2-US-G2
PROTECTION							
Integrated	Islanding protection, Output overcurrent protection, Output overvoltage protection,PV input polarity reverse protection, DC Switch (optional), Ground Fault Sensing,leakage current monitoring protection, Battery Over-current protection/ Battery Over-temperature protection						
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	Intelligence Fan						
Noise (dB)	≤52dB						
Altitude	3000m, >3000mDerating						
Communication	USB/ WiFi/ Enternet(optional)						
Display	4.3-inch touch screen						
Protection Degree	IP66						
Installation Style	Wall-mounted						
MECHANICAL SPECIFICATIONS							
Machine Dimension (W*H*D)(mm)	482*770*289 (excluding connectors and racks)						
Package Dimension (W*H*D)(mm)	904*430*575						
N.W(kg)	51						
G.W(kg)	58						
Warranty	5 year						

CERTIFICATION & STANDARDS

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