

# HYBRID SOLAR INVERTER

## PH1100 EU-G2 Series

3~8KW | Single Phase | IP66



### Hybrid Energy Management

Integrates solar, battery, generator & grid for efficient use.

### Smart Control & Monitoring

4.3" touch display + WiFi for easy operation.

### Robust Outdoor Protection

IP66 design for reliable outdoor installation.

### Flexible Parallel Expansion

Up to 9 units in parallel for on/off-grid systems.

### Fast Charge & Discharge

190A charge/discharge with 6 time-period settings.

### AC-Coupling Function

Works with existing solar systems for quick upgrades.



### MAIN PARAMETER

MODEL	PH11-3.6KL1-EU-G2	PH11-4KL1-EU-G2	PH11-5KL1-EU-G2	PH11-6KL1-EU-G2	PH11-7KL1-EU-G2	PH11-7.6KL1-EU-G2	PH11-8KL1-EU-G2
<b>BATTERY INPUT DATA</b>							
Battery type	Lead-acid battery / Lithium battery						
Battery voltage	48V						
Charging curve	4-stage adaptive with maintenance/Equalization						
Maximum charging/discharging power	3600W	4000W	5000W	6000W	7000W	7600W	8000W
Maximum charging/discharging current	90A	100A	120A	135A	175A	190A	190A
<b>PV STRING INPUT DATA</b>							
Max. DC Input Power	5400W	6000W	7500W	9000W	10500W	11400W	12000W
Maximum DC voltage	550V						
Start-up Voltage	125V						
Full Load DC Voltage Range	300-500V	167-500V	208-500V	250-500V	165-500V	179-500V	188-500V
Minimum voltage for grid connection	150V						
Maximum input current	18A	18A+18A	18A+18A	18A+18A	32A+32A	32A+32A	32A+32A
No.of MPP Trackers	1	2	2	2	2	2	2
Input terminal type	H4/MC4						
<b>AC INPUT/OUTPUT DATA</b>							
Rated AC Input/Output Active Power	3000W	4000W	5000W	6000W	7000W	7600W	8000W
Max. AC Input/Output Apparent Power	3300VA	4400VA	5500VA	6600VA	7700VA	8360VA	8800VA
Rated Input/Output Voltage/Range	220/230/240VAC						
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	Single phase						
DC Current Injection	0.5%						
<b>EFFICIENCY</b>							
Max. Efficiency	97.5%						
Euro Efficiency	96.5%						
MPPT Efficiency	>99%						
<b>PROTECTION</b>							
Integrated	Islanding protection, Output overcurrent protection, Output overvoltage protection, DC switch rating for each MPPT, Grid monitoring, Output over current protection, Grid overvoltage protection-varistor, Integrated all-pole sensitive leakage current, ISO monitoring, over temperature protection.						
Surge Protection	AC Type III						
Overvoltage Category	AC Type III						

### OTHER PARAMETER

MODEL	PH11-3KL1-EU-G2	PH11-4KL1-EU-G2	PH11-5KL1-EU-G2	PH11-6KL1-EU-G2	PH11-7KL1-EU-G2	PH11-7.6KL1-EU-G2	PH11-8KL1-EU-G2
<b>BATTERY INPUT DATA</b>							
<b>GENERAL DATA</b>							
Operating Temperature Range (°C)	-25°C~+60°C, >45°C Derating						
Cooling	Intelligent Fan						
Noise (dB)	≤50dB						
Altitude	3000m, >3000mDerating						
Topology	Battery-side transformer isolation, PV-side non-transformer isolation						
Communication	USB/ WiFi/ Ethernet(optional)						
Display	4.3-inch touch screen						
Protection Degree	IP66						
<b>MECHANICAL SPECIFICATIONS</b>							
Machine Dimension (W*H*D)(mm)	360*500*238						
Package Dimension (W*H*D)(mm)	622*479*363						
N.W(kg)	22						
G.W(kg)	25						
Warranty	5 year						
<b>CERTIFICATION &amp; STANDARDS</b>							
NBT32004-2013/EN50549							