HYBRID SOLAR INVERTER

PH1100 EU-G2 Series

3~10KW | 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

Max. 210A charge/discharge with 6 time period settings.

AC-Coupling Function

Works with existing solar systems for quick upgrades.

MUST × ENERGYFY

MAIN PARAMETER

MODEL	PH11-3KL1-EU-G2	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	PH11-10KL1-EU-G2
BATTERY INPUT DATA									
Battery type	Lead-acid battery / Lithium battery								
Battery voltage	48V								
Charging curve	4-stage adaptive with maintenance/Equalization								
Maximum charging/discharging power	3000W	3600W	4000W	5000W	6000W	7000W	7600W	8000W	10000W
Maximum charging/discharging current	75A	90A	100A	120A	135A	175A	190A	190A	210A
PV STRING INPUT DATA									
Max. DC Input Power	6000W	7200W	8000W	10000W	12000W	14000W	15200W	16000W	20000W
Maximum DC voltage	550V								
Start-up Voltage	125V								
Full Load DC Voltage Range	167-500V	200-500V	153-500V	192-500V	230-500V	218-500V	238-500V	250-500V	278-500V
Minimum voltage for grid connection	150V								
Maximum input current	18A+18A	18A+18A	26A+26A	26A+26A	26A+26A	32A+32A	32A+32A	32A+32A	36A+36A
No.of MPP Trackers	2	2	2	2	2	2	2	2	2
Input terminal type	H4/MC4								
AC INPUT/OUTPUT DATA									
Rated AC Input/Output Active Power	3000W	3600W	4000W	5000W	6000W	7000W	7600W	8000W	10000W
Max. AC Input/Output Apparent Power	3300VA	3960VA	4400VA	5500VA	6600VA	7700VA	8360VA	8800VA	11000VA
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%								
EFFICIENCY									
Max. Efficiency	97.5%								
Euro Efficiency	96.5%								
MPPT Efficiency	>99%								
PROTECTION									
Integrated	Islanding protection, Output overcurrent protection, Output overvoltage protection, DC switch rating for each MPPT, Grid monitoring, Output over current protection, Gird 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	PH11-3.6KL1-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	PH11-10KL1-EU-G2
GENERAL DATA									
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/ Enternet(optional)								
Display	4.3-inch touch screen								
Protection Degree	IP66								
MECHANICAL SPECIFICATIONS									
Machine Dimension (W*H*D)(mm)	372*564*241								
Package Dimension (W*H*D)(mm)	479*652*363								
N.W(kg)	22								
G.W(kg)	25								
Warranty	10 year								
CERTIFICATION & STANDARDS									
CE-EMC+LVD (EN6100-6-3, EN6100-6-1+EN IEC 62109-1, EN IEC 62109-2); CE-LVD(EN 62477-1) ; IEC 60529; EN50549-1; Poland Type A, (NC RfG:2016, PSE:2018, PTPiREE:2021)C10/C11; UNE217001-2020; UNE217002-2020, NTS-631 (Type A); G98+G99									

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