EU STANDARD 220V HYBRID SOLAR INVERTER

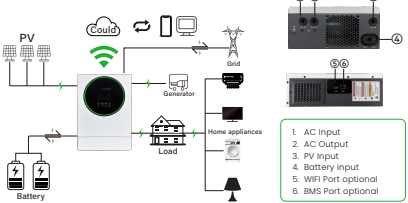


1.2KW Features

- Lithium battery activation function, which can be triggered by PV
- Pure Sine Wave
- PV input 125VDC Max
- MPPT Voltage 17-115VDC
- Detachable dust cover for harsh environment
- Wifi remote monitoring optional



Connection Overview



Bottom view

1. AC Input
2. AC Output
3. PV Input
4. Battery input
5. WIFI Port optional
6. BMS Port optional

TECHNICAL PARAMETER

Colorway

Mode	HF01K2-12ML
AC Input	
Nominal Input Voltage	208/220/230/240VAC; L+N+PE
Voltage Range (VAC)	170~280Vac For Personal computers 90~280Vac For Home Appliances
Frequency	40~70Hz (Adaptive)
AC Output	
Rated Capacity	1200W
Peak Power	2400VA
Nominal Output Voltage	208/220/230/240VAC; L+N+PE
Voltage Range (Settable)	90~280V (Appliance/Generator mode) 170~264V (UPS mode)
Power Factor	1
Frequency	Line mode: Follow line mode frequency; Battery mode: 50 / 60 Hz ± 0.1%
Switch Time (Line Mode to Battery Mode)	UPS mode: 10ms (Typical) Appliance mode: 10ms (Typical) Generator mode: 60ms (Typical)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	60s@102%< Load ≤ 110% Load 10s@120%< Load & <200% Load
Max Efficiency (Battery Mode)	90.5%@12VDC
Parallel Quantity	—
Charger (PV / AC)	
PV Charging method	MPPT
MPPT Voltage	17-115VDC
Max PV Input Current / Input Power	15A / 800W
Max PV Open Circuit Voltage	125VDC
Max PV Charge Current	60A
AC Charge Current	2~60A Settable
Max Charge Current (AC + PV)	100A
Battery	
Nominal Voltage	12VDC
Maximum Discharge Current	110A
Constant Charge Voltage (Settable)	14.1VDC
Floating Charge Voltage (Settable)	13.5VDC
Battery Over Voltage	16VDC
BMS Protocol (Optional)	VOL,GRO,FYL,IRO,CVT
Battery Type	Lithium / VRLA
Interface	
HMI	LCD, 4 buttons + 4 LED lights, can display running/input/output/load mode
Port	RS232,USB-Type-A，Baud 9600, RS485
Expansion Interface	—
Parallel Interface	—
Monitoring	WIFI (Optional)
General Data	
Ingress Protection	IP21
Operating Temperature	-10~60 °C (Reduce output power to 80% above 40 °C)
Environment Humidity	20%~95% (No condensing)
Storage Temperature	-15~60°C (Battery: 0~40°C)
Operating Altitude	Should not exceed 1000m, up to 4000m. Refer to IEC62040-3
Noise	≤50db
product size / packing size (mm)	317*227*107mm / 367*270*160mm
Net / Gross Weight (kg)	3.5kg / 4.1kg