

ON/OFF GRID HYBRID SOLAR INVERTER

ES-HY6KW-48 Series

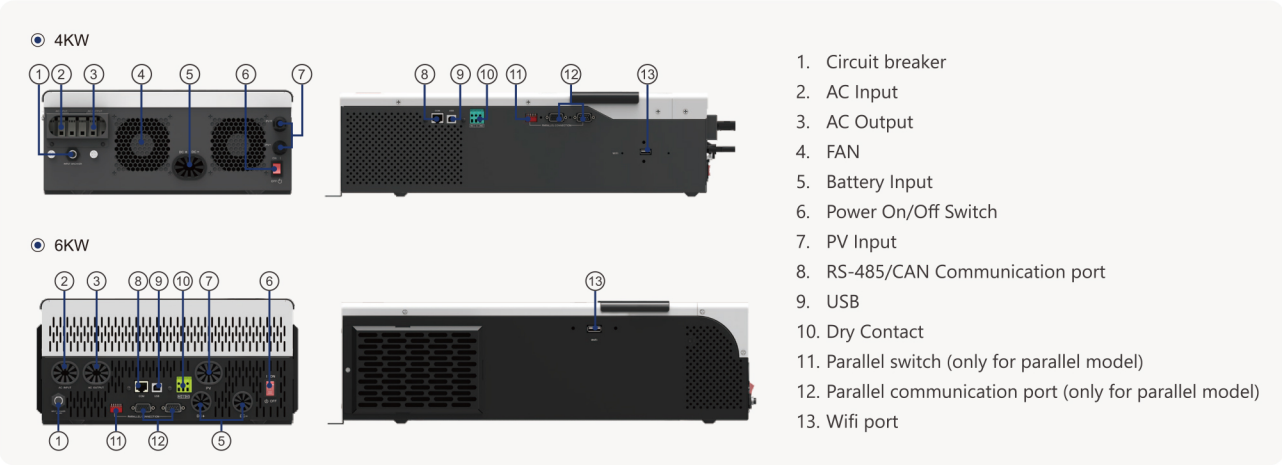
6KW | 500V | WiFi | Dual output

ES-HY6KW-48 is a multi-function inverter/charger, combining functions of inverter, MPPT solar charger and battery charger to offer uninterruptible power support in portable size.ES-HY6KW-48Series can run without battery. The Maximum PV array open circuit voltage can reach 500V and MPPT voltage is 90~430V, which can help customers make full use of solar energy.

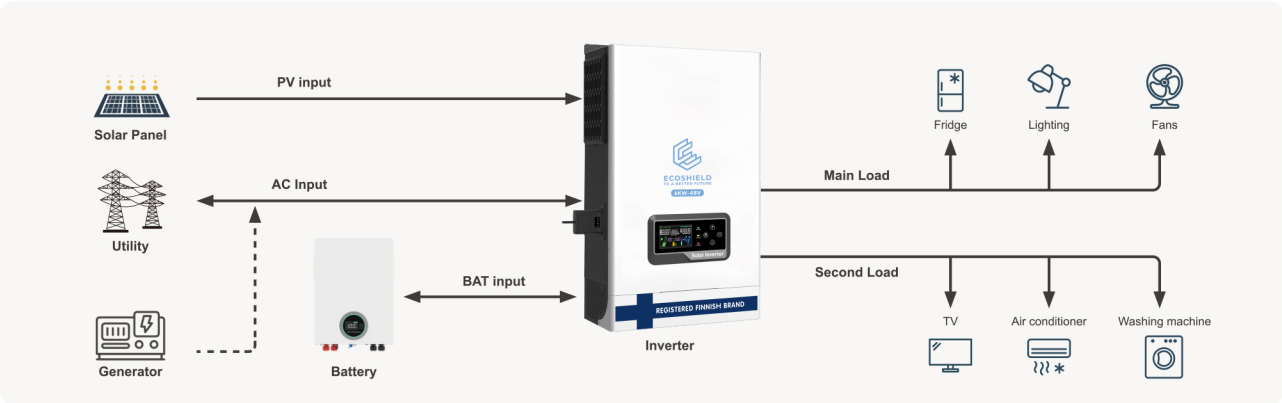


- Pure sine wave output
- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc).
- Built-in MPPT solar charge controller
- MAX PV Array Open Circuit Voltage: 500V
- Combining solar system, AC utility, and battery power source to supply continuous power
- Overload, short circuit and Deep discharge protection
- Cold start function
- Support USB, RS485 monitoring function
- Parallel operation with up to 3 units
- WIFI remote monitoring (optional)
- With BMS lithium battery communication function
- With AC/PV lithium battery activation function
- Dual outputs for smart load management

Back panel description



Solar system connection



MODEL	ES-HY6KW-48
Nominal Battery System Voltage	48VDC
INVERTER OUTPUT	
Rated Power	6000VA/6000W
Surge Power	12000W
Waveform	Pure sine wave
AC Voltage Regulation (Batt.Mode)	230VAC±5%(Setting)
Inverter Efficiency(Peak)	90%
Transfer Time	10ms (UPS / VDE4105) / 20ms (APL)
AC INPUT	
Voltage	230VAC±5%
Selectable Voltage Range	170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VED4105)
Frequency Range	50Hz / 60Hz(Auto sensing)
BATTERY	
Normal voltage	48VDC
Floating Charge Voltage	54.8VDC
Overcharge Protection	60VDC
SOLAR CHARGER & AC CHARGER	
Maximum PV Array Open Circuit Voltage	500VDC
Maximum PV input Current	27A
Charging Algorithm	3-Step (Flooded Battery, AGM / GEL / LEAD Battery), 4-Step (Li)
Maximum PV Array Power	6000W
PV Array MPPT Voltage Range	120~430 VDC
Maximum Solar Charge Current	120A
Maximum AC Charge Current	100A
Maximum Charge Current	120A
MECHANICAL SPECIFICATIONS	
Machine Dimension (W*H*D)(mm)	309*505*147
Package Dimension (W*H*D)(mm)	603*260*400
N.W(kg)	12.9
G.W(kg)	13.8
OTHER	
Humidity	5% to 95% Relative humidity (Non-condensing)
Operating Temperature	0°C~50°C
Storage Temperature	-15°C ~60°C

CE-EMC+LVD (EN6100-6-3:2007, EN6100-6-1:2017+EN IEC62109-1:2010, EN IEC62109-2:2011)
EN IEC62368-1:2020+A11:2020
EN IEC62368-1:2018
Rohs-(2011/65/EUand2015/863/EU)
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