PRODUCTS - 230V



ON/OFF GRID HYBRID SOLAR INVERTER ES-HY4KW-24 Series

4KW | 500V | WiFi | Dual output

ES-HY4KW-24

ES-HY4KW-24 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-HY4KW-24Series 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.



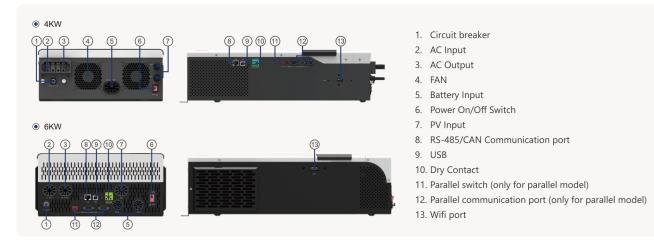






- Pure sine wave output
- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc).
- Built-in MPPT solar charge controller
- MAX PV Array Open Circuit Voltage: 500V
- Combining solar system, AC utility, and battery power source to supply continuous power
- Overload, short circuit and Deep 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





		TO A BETTER FUTURE
MODEL	ES-HY4KW-24	
Nominal Battery System Voltage	24VDC	
INVERTER OUTPUT		
Rated Power	4000VA/4000W	
Surge Power	8000W	
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	24VDC	
Floating Charge Voltage	27.4VDC	
Overcharge Protection	30VDC	
SOLAR CHARGER & AC CHARGER		
Maximum PV Array Open Circuit Voltage	500VDC	
Maximum PV input Current	18A	
Charging Algorithm	3-Step (Flooded Battery, AGM / GEL / LEAD Battery), 4-Step (Li)	
Maximum PV Array Power	5000W	
PV Array MPPT Voltage Range	90~430 VDC	
Maximum Solar Charge Current	100A	
Maximum AC Charge Current	80A	
Maximum Charge Current	100A	
MECHANICAL SPECIFICATIONS		
Machine Dimension (W*H*D)(mm)	322*486*134	
Package Dimension (W*H*D)(mm)	600*230*420	
N.W(kg)	10.6	
G.W(kg)	12	
OTHER		
Humidity	5% to 95% Relative humidity (Non-condensing)	
Operating Temperature	0°C~50°C	
Storage Temperature	-15°C ~60°C	
CERTIFICATION & STANDARDS		

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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