

5.6kW Pro Hybrid Solar Storage Inverter

Product Models

- ◆ KY-ESS5K6L-EU Pro



Application Scenario

Pictures shown are for illustrative purposes only. The physical product shall prevail.



House



Farm



Telecom



Countryside



Island



Pasture

Product Feature

- Adopt DSP full digital control mode
- High precision MPPT controller
- The battery has a balanced charging mode
- Battery can use PV maximum to input voltage 500Vdc or not use
- Monitoring system WIFI/GPRS option
- Anti-backflow grid connection function photovoltaic and mains power hybrid power supply, supporting use without batteries
- With multiple protection functions, 360 ° all-round protection
- Support 6 machines in parallel, constitute three-phase four-wire power generation system
- If the photovoltaic power is insufficient, the photovoltaic can be combined with the power grid and battery to supply the load
- Both are configured the grid and PV prioritize
- Economic model can be used to charge and discharge the inverter
- Power grid and oil machine can be freely selected
- Multiple charging and discharging modes
- Adopt an intelligent adjustable-speed fan for efficient heatdissipation and prolong the service life of the system

Model	KY-ESS5K6L-EU Pro
Battery Input/Output Data	
Battery Voltage	48VDC
Hybrid Charging Maximum Charging Current	100A
Battery Type	Lithium/Lead-acid
Solar Input Data	
Maximum PV Input Power	5500W
MPPT Range @ Operating Voltage	120VDC - 450VDC
Maximum PV Input Current	22A
Number of Independent MPP Trackers/Strings Per MPP Tracker	1/1
Maximum PV Open-circuit Voltage	500VDC
Maximum Solar Charge Current	100A
AC Output Data	
Rated Power	5600VA/5600W
Parallel Capability	Yes, 6 units maximum
AC Voltage Regulation	230VAC \pm 5% @ 50/60Hz
Surge Power	11000VA, Turn off output after 5 seconds
Efficiency (Peak)	93%
Waveform	Pure sine wave
Transfer Time	20ms Max
AC Charger Data	
Charge Current	100A
AC Input Voltage	230 VAC
Selectable Voltage Range	170-280 VAC (For Personal Computers); 90-280 VAC (For Home Appliances)
Frequency Range	50Hz/60Hz (Auto sensing)
Physical Data	
Protection Degree	IP21
Dimension (L/W/D)	480(L)x331(W)x120(D)mm
Packaging Dimension (L/W/D)	612(L)x424(W)x208(D)mm
Net Weight	12KG
Operating Environment Data	
Certificate	IEC62109-1/2, EN61000-6-1/3
Humidity	5% to 95% Relative Humidity (Non-condensing)
EMC Certification Level (EMC)	class B
Altitude	<2000m
Operating Temperature	-10°C - 55°C
Storage Temperature	-15°C - 60°C