

6.5kW Solar Storage Inverter

Product Models

- ◆ KY-ESS6K5L-US



Application Scenario

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



House



Farm



Telecom



Countryside



Island



Pasture

Product Feature

- Support multiple battery protocols
- High precision MPPT controller
- Battery can use PV maximum to input voltage 500Vdc or not use
- Monitoring system WIFI/GPRS option
- Adopt an intelligent adjustable-speed fan for efficient heatdissipation and prolong the service life of the system
- Support 6 machines in parallel, constitute three-phase four-wire power generation system
- The battery has a balanced charging mode
- If the photovoltaic power is insufficient, the photovoltaic can be combined with the power grid and battery to supply the load
- Economic model can be used to charge and discharge the inverter
- It has a power-saving mode function to reduce no-load loss

Model	KY-ESS6K5L-US
Battery Input/Output Data	
Battery Voltage	48VDC
Hybrid Charging Maximum Charging Current	140A
Battery Type	Lithium/Lead-acid
Solar Input Data	
Maximum PV Input Power	2*6300W
MPPT Range @ Operating Voltage	120VDC - 450VDC
Maximum PV Input Current	2*18A
Number of Independent MPP Trackers/Strings Per MPP Tracker	1/2
Maximum PV Open-circuit Voltage	2*550VDC
Maximum Solar Charge Current	140A
AC Output Data	
Rated Power	6500VA/6500W
Parallel Capability	Yes, 6 units maximum
AC Voltage Regulation	120/240VAC \pm 5% @ 50/60Hz
Surge Power	13000VA
Efficiency (Peak)	93%
Waveform	Pure sine wave
Transfer Time	10ms typical, 20ms Max
AC Charger Data	
Charge Current	80A
AC Input Voltage	120/240 VAC
Selectable Voltage Range	95-140 VAC (L/N); 156-242 VAC (L1/L2/L3)
Frequency Range	50Hz/60Hz (Auto sensing)
Physical Data	
Protection Degree	IP21
Dimension (L/W/D)	582(L)x445(W)x131(D)mm
Packaging Dimension (L/W/D)	742(L)x567(W)x240(D)mm
Net Weight	19KG
Operating Environment Data	
Certificate	UL1741/FCC
Humidity	5% to 95% Relative Humidity (Non-condensing)
EMC Certification Level (EMC)	FCC
Altitude	<2000m
Operating Temperature	-10°C - 55°C
Storage Temperature	-15°C - 60°C