



逆变储能一体机

ALL-IN-ONE INVERTER & BATTERY SYSTEM

ESS 12KW+30KWH

BMS

Support Lithium/Lead-acid Battery
支持锂电或铅酸电池



MAX.PV 12KW
最大光伏功率12KW

DUAL

Dual AC Output
双AC输出



Built-in Solar Charger
内置太阳能充电器



Feed-in to Grid
支持并网



Workable with Generator
支持发电机



Wide MPPT Range 60-450V
光伏工作电压范围60-450V



WiFi Monitoring
支持wifi监控



Lithium Battery Activation
支持锂电池激活

规格参数Specifications Parameter

型号Model	ESS 12KW+30KWH
交流输入 AC Input	
额定输入电压 Rated Input Voltage (VAC)	220/230/240;L+N+PE
电压范围 Voltage Range (VAC)	90~280+3 (normal mode); 170~280+3 (UPS mode)
频率 Frequency (Hz)	50Hz/60Hz (Auto detection)
交流输出 AC Output	
额定功率 Rated Capacity (W)	12000W
电压 Voltage (VAC)	220/230/240
功率因数 Power Factor (PF)	1
频率 Frequency	50/60Hz±0.1%
切换时间 Switch Time (ms)	10(APP/UPS mode), 20(GEN mode)
正弦波 Wave Form	Pure Sine Wave
过载保护 Overload protection	(105% < load <110%) ±5%: report error and turn off the output after 5 minutes; (110% < load < 125%) ± 5%: report error and turn off the output after 10 seconds; Load >125% ±5%: report error and turn off the output after 5 seconds
最大效率 Max. Efficiency (Battery Mode)	94%@48VDC
充电 Charger (PV / AC)	
太阳能充电类型 Solar Charger Type	Dual MPPTs
光伏输入 Max PV input current / power	1*MPPT: 27A/9KW , 2*MPPTs: 22.5A/15kW
电压范围 Operating Voltage Range (VDC)	60Vdc~450Vdc
开路电压Max PV Open Circuit Voltage (VDC)	500Vdc
光伏充电电流Max PV Charge Current (A)	160A
市电充电电流Max AC Charge Current (A)	160A
最大充电电流Max. Charge Current (PV + AC) (A)	160A
电池 Battery	
额定电池电压 Nominal Battery Voltage	51.2VDC
额定能量Rated Energy	30KWh(0.5C , 25°C)
可用能量(90%深度放电)Usable Energy(90%DOD)	27KWh
最大充电/放电电流Max.Charge/Discharge Current	200A/200A
工作电压范围Operation Voltage Range	44.8Vdc ~ 58.4Vdc
工作温度Operation Temperature	-10°C ~ +50°C
界面 Interface	
显示 reveal	LCD
通讯 communication	RS485 / RS232 / USB / Dry Contact
监控 Monitoring	WiFi
一般信息 General Data	
防护等级 Ingress Protection	IP20
工作温度 Operating Temperature	-10 °C ~ 50 °C
相对湿度 Relative Humidity	5% ~ 95% (Non-condensing)
存储温度 Storage Temperature	-15 °C ~ 60 °C
最大工作海拔 Max. Operating Altitude	4000m (Derating above 1000m)
尺寸 DIMENSION	
L×W×H (产品products size, mm)	695x298x1550mm
L×W×H (包装package size, mm)	755x480x1630mm
净重 Weight(NW Kg)	280kg
毛重 Weight(GW Kg)	303kg