HDB Stacked Solar Energy Storage System

12KW(16KWH-32KWH)

MAIN FEATURES

- Pure sine wave output
- Built-in 2 MPPT
- Compatible work with LiFePO4 battery via RS485
- LifePO4 battery with 10 years service life
- Wifi remote monitoring optional
- EQ function to optimize battery performance and extend lifecycle

Product Specifications

Model		HDB-ES12KW-16D	HDB-ES12KW-32D
Mains Mode	Nominal Input Voltage	230VAC	
	Input Voltage Range	(170~280VAC)±2%(UPS mode);(90~280VAC)±2%(APL mode)	
	Frequency	50/60Hz(Auto detect)	
	Frequency Range	47±0.3~55±0.3HZ(50Hz);57±0.3~65±0.3Hz(60Hz)	
	Max. Efficiency	>95%	
	Conversion Time (bypass and inverter)	10ms(typical)	
	Max. Bypass Overload Current	60A	
Inverter Mode	Output Voltage Waveform	Pure Sine Wave	
	Nominal Output Power	12000VA/12000W	
	Power Factor	1	
	Nominal Output Voltage	230VAC	
	Output Frequency Range	50±0.3Hz/60±0.3Hz	
	Max. Efficiency	≥93%	
	Overload Protection	(102%<load<125%) ±10%:report error and turn off the output after 5 minutes (125%<load<150%) ± 10%:report error and turn off the output after 10 seconds Load>150%±10%:report error and turn off the output after 5 seconds	
	Peak Power	24000VA	
	Load Motor Capability	8HP	
	Nominal Batteryinput Voltage	48V(Min. start voltage 44V)	
	Battery Voltage Range	40.0~60VDC±0.6VDC(Undervoltage alarm/shutdown voltage/overvoltage alarm/overvoltage recovery...LCD screen can be set)	
	Save Power Mode	Load≤50W Enter save power mode	
Mains Charge	Battery Type	Lead-acid or lithium batteries	
	Max. Charge Current (configurable)	150A	
	Charge Voltage Range	40~60VDC	
Battery And AC Charging	Specification	314AH/51.2V	
	Battery Capacity	16076.8WH	
	Stacking Quantity	1	2
	Maximum Charging Current	160A	
Solar Charge	Max. PV Open Circuit Voltage	500VDC	
	PV Operate Voltage Range	120~500VDC	
	MPPT Voltage Range	90~450VDC	
	Battery Voltage Range	40~60VDC	
	Max.PV Input Power/Current	9000W*2/27A*2	
	Charge Current Range (configurable)	0~150A	
Max, Hybrid Charge Current (PV+AC)	Max. Hybrid Charge Current (configurable)	0~150A	
Certification	Safety Certifcation	CE(IEC62109-1,2)	
	EMC Certifcation Level	EN61000,C2	
	Operate Temperature Range	-15~55°C	
	Storage Temperature Range	-25~60°C	
	Humidity Range	5~95%(Three anti-paint protection)	
	Noise	≤60dB	
	Cooling	Forced air cooling,adjustable wind speed	
	Communicate	USB/RS485 (/WiFi/GPRS)/Dry node control	