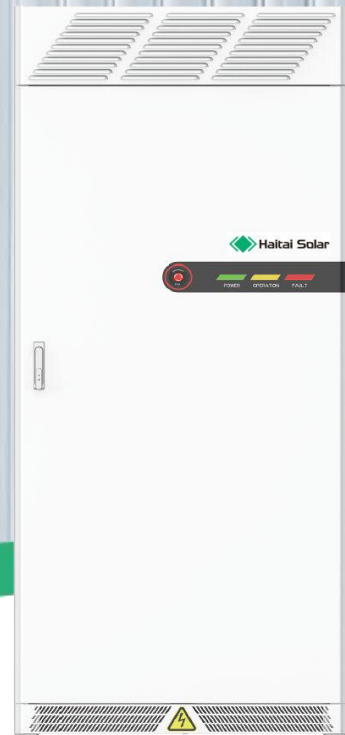


BLUE STAR 1.0

HTDESS-125/256-LC

Commercial & industrial Energy Storage System



Product Introduction

Haitai Digital Energy's commercial & industrial energy storage system integrates intelligent liquid cooling pack, highly precise battery management system (BMS), smart energy management system (EMS), PCS and fire protection system, etc. Energy capacity and power of this system can reach up to 256 kWh and 125 kW respectively. Modular design enables this system flexible scalability for various applications. The system can improve power supply quality with its voltage regulation, three-phase unbalance control and harmonious wave control features. With its load tracking, backup power supply and peak shaving features, this energy storage system can help businesses reduce electricity bills effectively, increase green energy consumption and maintain safe and stable system operations.

Product Features

- High efficiency liquid cooling technology, battery cell temperature difference $\leq 3^{\circ}\text{C}$.
- Intelligent monitoring system, integrated management of BMS and EMS. more intelligent and safe.
- All-in-one design, cabinet transportation, plug-in and ready to use.
- Built-in independent fire protection system.
- System Certifications: EN IEC 61000-6-2:2019、 EN IEC 61000-6-4: 2019、 IEC 62477-1: 2012/AMD1: 2016、 EN 62477-1: 2012/A1: 2017、 VDE-AR-N 4105: 2018-11、 DIN VDE V 0124-100 (VDE V 0124-100) : 2020-06、 EN 50549-1: 2019;
- Battery Certifications: UL1973、 UL9540A、 IEC61629、 UN38.3、 GB/T36276-2018、 ROHS、 MSDS;
- Module Certifications: UL9540A、 IEC61629、 UN38.3、 FCC、 EMC、 EN62477-1、 IEC60529.

Model

AC(Grid tied)	
Mode	Load shifting,Peak-Valley arbitrage benefit,limited power supporting
Rated Power	125 KW
Rated Voltage	400 Vac,3P+PE
Max.Continuous Input Current	180 A
Frequency	50 Hz
Power factor	0.8CAP~0.8IND
THDI	<5%

Battery Side

Cell Capacity	256 KWh
Cell Type	LiFePO4 3.2V 280AH
Cycle Life	≥ 6600 Cycles (0.5P,25°C, 80%EOL, 90%DOD)
Rated Voltage	951.2 V
Voltage Range	686.4V~1043.9V
Charge/Discharge Efficiency	≥90%
Max.Charging/Discharging Power	128 A (0.5C)

Basic Parameters

AC/DC Start Function	≤10 ms
Protection Function	Over/under voltage,Over current,Over/low temperature,SOC too high/low Low insulation impedance,Short circuit protection,etc
Operating Temperature	-30°C~+50°C (> 45°C derating)
Cooling	Air Cooling (PCS) +Liquid Cooling(Battery)
Max.Altitude	2000 m
Fire Protection	Aerosol+C6F12O(Optional) fire extinguisher
Max.Efficiency	92%(Auxiliary power is not included)
IP Level	IP55(Battery IP67)
Noise	< 70dB @ 25°C
Communication	RS485、 CAN、 Ethernet、 Modbus、 TCP/RTU
Dimensions(WxDxH)	1030mmx1320mmx2480mm
Weight	2700 kg

*Above information is subject to our updates.