

Large-Scale Liquid-Cooled Energy Storage DC Skid

HTDESS 2500/5000-LC

HTDESS 3125/6250-LC



Product Features

High Safety

- IP55 protection rating, up to C5 anti-corrosion, suitable for outdoor applications
- Full charge and full discharge, safe and stable operation at full capacity
- Prevention-oriented fire protection strategy with AI big data early warning system, realizing three-level fire detection (module, cluster, compartment)
- Temperature difference between cells within a module $\leq 3^{\circ}\text{C}$, efficient and stable temperature control

High Integration

- Modular design with compact structure
- Separate electrical and battery compartments for easy maintenance
- Non-walk-in / modular high-integration design saves 35% floor space
- Prefabricated skid installation solution reduces on-site installation cost and commissioning time

High Efficiency

- Fast response within 30ms when discharge mode is activated, system charge/discharge efficiency up to 94%

Applications



Source-Grid Side Solution



Grid Side Solution



User Side Solution



Commercial & Industrial Solution

Specifications

Parameter	HTDESS 2500/5000-LC	HTDESS 3125/6250-LC
Electrochemical System	LiFePO ₄	
Series/Parallel Configuration	12P416S (PE0104)	8P416S (PE0104)
Rated Energy	5015kWh	6250kWh
Cell Capacity	314Ah	587Ah
C-Rate	0.5	0.5
Rated Voltage	1331.2V	
Cooling Method	Liquid cooling	
Fire Protection Configuration	Optional: perfluorohexanone, aerosol, water spray	
Operating Temperature	-30° C to 50° C (derating at ≥ 45° C)	
Operating Humidity	0-95% RH (non-condensing)	
Noise	≤ 85db	
Anti-Corrosion Level	C5	
Operating Altitude	≤ 5000 m (derating above 2000 m)	
IP Rating	IP55	
Product Weight	< 43t	< 45t
Product Dimensions (W×D×H)	6058×2438×2896mm	

Tangshan Haitai Digital Energy Technology Co., Ltd.

Address: Houhu Industrial Park, Yutian Economic Development Zone, Tangshan City, Hebei Province, China

Website: www.haitai-solar.com Email: dess@htsolargroup.com Tel: 400-083-5985

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