



Power a Better World

Utility, Industrial & Commercial Projects

Advantages

- Small occupation and easy for installation and maintenance;
- Embedded with three-level protection BMS, safe and reliable;
- Contact hydraulic cooling system with a cell-to-cell temperature deviation of $\leq 3^{\circ}\text{C}$;
- Synchronized with EMS data, data management in optimization;
- Advanced temperature management system;
- High charge/discharge efficiency;
- Safety reliability: wide temperature range adaptability from -20°C to 50°C , high anti-wind-and-corrosion level, anti-seismic level, and high protection level of IP54.
- The MPPT controller with a modular design and adopting interleaved parallel technology, allowing for parallel expansion.

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Introduction

The industrial and commercial Battery Energy Storage System is independently researched and developed by YiLiNK and the system is designed to be applied in industrial and commercial energy storage solutions to supply reliable power support to various equipments and systems through direct connection to AC low-tension side.

All in One Configuration

PCS
EMS
Battery System
Monitoring System
Liquid Cooling System
PV Controller (MPPT)



Specification

System Model	YL-HV100kW/215kWh
System Parameters	
Nominal Power	100kW
Nominal Energy	215kWh
Voltage Range DC	600~864V
Output Voltage AC	240/400Vac
Composition	1P240S
Nominal Voltage DC	768V
Cycle Efficiency	≥93%
Cycle Life	≥6000 Times
Dimension	D1460*W1400*H2280mm
IP Rating	IP54
Weight	2500kg
Operating Temperature Range	-20~50℃
Max. Operating Altitude	≤3000m
Battery Temperature Control Method	Liquid Cooling
Firefighting Methods	Fire Protection Inside the Cabinet
Communication Network	Ethernet
Communication Protocol	Supports IEC104, Modbus-RTU, DL/T645, etc
Parallel Capability	5*Clusters(500kW/1MWh)
Battery Cluster	
Composition	1P240S
Nominal Capacity	280Ah
Nominal Voltage	768V
Nominal Energy	215kWh
Weight	1500kg
IP Rating	IP65
Optimum Operating Temperature	10~35℃

Cycle Efficiency@0.5C Cycle Life@0.5C

PCS Parameters	
Max. DC Power	162kW
Max. Input Current	171A
DC Operating Voltage Range	615~900V(3P3L)/650~950V(3P4L)
Nominal AC Power	105kW
Max. AC Current	167A
Dimension	D484*W667*H271.5mm
Weight	50kg
IP Rating	IP20
MPPT Parameters	
Nominal Power	50kW
Single Channel Max. Current	135A
Output Voltage Range	DC650~DC900V
Input Voltage Range	DC270~DC700V
Parallel Quantity	2
Stable Voltage Accuracy	< 1%
Output Ripple	< 0.5%
Overload Capacity	105% load, long-term operation
Storage Temperature	-40~70 ℃ (without battery)
Working Temperature	-20~55 ℃ (derating above 45 ℃)
Relative Humidity	0% RH~95% RH, non condensing
Working Altitude	≤2000m; 2000m~4000m Derated Use
Communication Methods	CAN/RS485
Isolation Method	Non isolated type
Maximum Efficiency	98.20%
IP Level	IP20
Cooling Method	Air cooling, intelligent fan speed regulation
Dimensions	D608.5*W530*H132mm
Weight	30kg

