

LY-PowerKey-254

Smart liquid cooling energy storage cabinet

Application



C & I Park



Emergency Power



Zero-Carbon Smart
Microgrid



Solar Energy
Consumption

Product Advantage



High Security

- Multi-Level FFS design, Support
- Accurate identifying and fast
- Responding to thermal failure



Simple and Friendly

- Easy installation
- High integration
- Simple operation



High Efficiency

- 90%DOD
- System efficiency 90%
- 6000 cycles



High Flexibility

- Small footprint
- Multiunit parallel
- On-demand expansion



Specification

LY-PowerKey-254		Specification
DC battery parameters	Cell type	LFP3.2V/306Ah
	Battery pack configuration	1P52S/50.92kWh
	Battery system configuration	1P260S
	Voltage range	728VDC~936VDC
	Capacity	254kWh
	Temperature detection	Cell + copper busbar
	Charging and discharging rate	≤0.5P
AC parameters (grid connection)	Rated power	125kW
	Max output power	137.5kW
	Rated grid voltage	400VAC, -15%~+15%
	Rated grid frequency	50Hz/60Hz, ±2.5Hz
	Power factor	-1 (leading) ~1 (lagging)
	THDi	<3% (rated output power)
	AC connection	Three-phase four-wire
System parameters	System efficiency	Max 90%
	Cooling mode	Liquid cooling
	Cycle life	6000 cycles, 90% DOD
	Operating temperature range	-20℃~50℃ (>40℃ derating)
	Anti-corrosion level	C5
	Dimensions	1420W*1425D*2250H
	Weight	≤2.8T
	Fire fighting	Aerosol (pack level+ cabinet level), water interface
	Ingress protection	IP54
	Intelligent monitoring	HMI
	Function	Peak-load shifting, Demand management, Anti-reflux, Multiunit parallel