

in cooperation with



Datasheet LION Smart Storage 420



Liquid-cooled Battery Energy Storage System

The liquid-cooled energy storage cabinet for commercial and industrial applications is a pure outdoor product that uses **innovative liquid cooling technology** and integrates LFP battery system, liquid-cooling system and fire protection system.

A single system is composed of 8 battery modules connected in series.

Suitable for scenarios:

- Peak shaving
- Frequency regulation auxiliary services
- · Valley filling on the user side
- Distributed power stations
- Large ground power stations



Standards Compliance

- GB/T 36276
- GB/T 34131

Contact Info

sales@lionsmart.com



Parameter	Unit	Value	
DC side of battery	_		
Cell capacity	Ah	314	
Rated capacity	kWh	418	
Charging & discharging power	kW	≤208	
Serial parallel method		1P416S	
Rated voltage	V	1331.2	
Working voltage range	V	1164.8 ~ 1407.6	
Rated charging & discharging ratio		≤0.5P	
Over voltage protection		yes	
Over current protection		yes	
Short circuit protection		yes	
Over temperature protection	yes		
System efficiency	%	≥92	
Weight	t	≤3.4	
Working temperature	°C	Charging temperature 0~45°C & discharging 20~55°C	
Working humidity range	%	5 ~ 95	
Noise	dB	≤75	
Protection grade	IP54 (b	IP54 (battery compartment IP65)	
Firefighting method	PACK	Cabinet level (aerosol) + PACK level (Perfluorohexane)	
Communication Interface	RS485	RS485 + 4G + LAN	

