



ESS Solution

FES-12K-LVB

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Comprehensive Protection

— Advanced BMS with active fuse



Superior Performance

— Support Max. 1C charge & 1.2C discharge GaN MOSFETS: 50% loss reduction, high-temp resistance



Optimized Energy Density

— Integrated PACK: reduced line loss, enhanced energy density



Flexible Expansion

— Max. 32 units in parallel



Easy Maintenance

— Auto-networking, Local monitoring mode for battery, remote monitoring mode for ESS



Reliable Durability

— Operates reliably in -20 °C to 55 °C, natural cooling



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Model FES-12K-LVB

Main Parameters		FES-12K-LVB
Battery Chemistry		LiFePO ₄
Capacity		230 Ah
Scalability		Max. 32 pcs in parallel
Nominal Voltage		51.2V
Operating Voltage		44.8 V ~ 57.6 V
Nominal Energy		11.8 kWh
Charge Current ^[1]	Max. Continuous	230 A
	Peak	280A (10 sec)
Discharge Current ^[1]	Max. Continuous	230 A
	Peak	280 A (10 sec)
Other Parameter		
Recommend Depth of Discharge		90% DoD
Dimension (W × H × D) (Without hanging board)		400 × 559 × 233 mm
Weight Approximate		84 kg
LED Indicator		LED (SOC, working, protecting) & Buzzer
IP Rating of Enclosure		IP21
Operating Temperature		Charge: 0~55°C/ Discharge: -20°C~55°C
Storage Temperature		0~35°C
Relative Humidity		95% (non-condensing)
Altitude		≤3000m
Cycle Life		≥6000(25°C±2°C,70%EOL)
Installation		Wall-Mounted, Floor-Mounted, Stack-Mounted
Communication		CAN2.0, RS485, Bluetooth+APP
Warranty Period ^[2]		10 years
Energy Throughput ^[2]		37 MWh
Certification		UN38.3, CE, CB

[1] The current is affected by temperature and SOC.

[2] Conditions apply, refer to FesTen Warranty Letter.