









# ESS Solution

FES-5K-LVB

## FES-5K-LVB

-  **Comprehensive Protection**
  - Advanced BMS
-  **Superior Performance**
  - Support Max. 1C charge & 1.2C discharge (FES-5K-LVB), 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**
  - Maintenance free battery
-  **Reliable Durability**
  - Operates reliably in -20 °C to 55 °C, natural cooling



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## Model FES-5K-LVB

### Main Parameters

Battery Chemistry	LiFePO <sub>4</sub>	
Capacity	100 Ah	
Scalability	Max. 32 pcs in parallel	
Nominal Voltage	51.2 V	
Operating Voltage	44.8 V ~ 57.6 V	
Nominal Energy	5.12 kWh	
Charge Current <sup>[1]</sup>	Max. Continuous	100 A
	Peak	120 A ( 10 sec )
Discharge Current <sup>[1]</sup>	Max. Continuous	120 A
	Peak	150 A ( 10 sec )

### Other Parameter

Recommend Depth of Discharge	90% DoD
Dimension ( W × H × D ) (Without hanging board)	370 × 548 × 140 mm
Weight Approximate	41 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 <sup>[2]</sup>	10 years
Energy Throughput <sup>[2]</sup>	16 MWh
Certification	UN38.3, MSDS

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

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