

Lithium-ion Battery Module

LD-51

51.2V

5.12kWh

World's only Battery with

135A
CONSTANT

1.35c (135 amp) Discharge at 45°C



Rated IP40

Dust Protection



1.35C (135A)

Constant Discharge at 45°C



Heat Resistance

Supports Internal Temperatures Up To 50°C — A World-First Innovation



Touch Screen

User Friendly LED



Built-in WiFi

Access Remotely



Cell-Level Monitoring

10mV Cell-Level Voltage & Temp Tracking



Call

UAN 042 111 111 140



Website

www.fronus.com

Product Datasheet

Battery type	LFP
Battery component	1P16S
Nominal voltage	51.2 V
Operating voltage range	42.4 ~ 57.6 V
Rated capacity	100 Ah
Nominal energy	5.12 kWh
Recommended current	100 A
Max. current	Charge: 100 A, Discharge: 135 A
Peak current	200 A (10s, 25°C)
Cycle life	>6000 Cycles (25°C ±2°C, 0.2C / 0.2C, 90%DOD, 70%EOL)
Communication interfaces	CAN / RS485
HMI	3.5 inch LCD touchscreen + Status Light + SOC power indicators
Operation temperature	Charge: 0 ~ 55°C, Discharge: -20 ~ 55°C
Storage temperature	-20 ~ 30°C (12 months), 30 ~ 60°C (6 months)
Single string quantity	16 pcs
Dimension (W x H x D)	335 x 626 x 169 mm
Weight	41.5±1 kg
Installation type	Wall / Floor / Rack mounting
Enclosure protection	IP40 (Water & Dust Protection)
Cooling concept	Natural cooling
Humidity	20 ~ 85% RH (non-condensing)
Altitude	<3000 m
Certification	IEC 62477, IEC 62619, IEC 60730, IEC 63056, IEC 61000, UN38.3
Warranty	5 Years