

Low-voltage Battery System



LD51C

5.1 kWh



High Performance

- 5.1~81.9 kWh wide capacity range
- Max.100A/135 A charge /discharge current
- Cycle life> 6000 cycles



Assured Reliability

- IP40 ingress protection
- LFP battery cell & high-performance processors



Smart Management

- Remote fault diagnosis, upgrade and maintenance
- Wide temperature tolerance
- User-friendly LCD touchscreen for intuitive and easy interaction



Flexible Adaptability

- Expandable to 16 units in parallel
- CTP (Cell-to-Pack) design maximizes space and energy density for superior performance

LD51C

GENERAL INFORMATION	
Battery model	LD51C
Battery type	LFP
Scalability	Max. 16 pcs in parallel
Rated voltage	51.2 Vdc
Operating voltage range	42.4 ~ 57.6 Vdc
Rated energy	5.1 kWh
Usable energy (95% DOD) ^①	4.8 kWh
Rated power	2.5 kW
Max. power	6.9 kW
Peak output power	10.2 kW, 10s
Recommend charge / discharge current	50 A
Max. charge / discharge current ^②	100 A / 135 A
Depth of discharge	95%
Cycle life (95% DOD) ^③	> 6000 cycles
Dimensions (W x H x D)	370 x 635 x 183 mm
Net weight	42.8 ± 1 kg
Warranty	5 Years
ENVIRONMENTAL REQUIREMENTS	
Charge temperature	0 ~ +55°C
Discharge temperature	-20 ~ +55°C
Cooling concept	Natural cooling
Storage temperature	-20 ~ +30°C (12 months) +30 ~ +60°C (6 months)
Relative humidity	5 ~ 95% RH (non-condensing)
Max. operating altitude	3000 m
Installation type	Wall mounting / Floor mounting
Ingress protection	IP40
Environment	Indoor
COMMUNICATION INTERFACES	
Display	Indicators / LCD
Communication interfaces	CAN2.0 / RS485
STANDARD	
Hazardous materials classification	Class 9
Transport testing requirement	UN38.3
Protection class	Class I
Certifications	IEC 62477, IEC 62619, IEC 60730, IEC 63056, IEC 61000, EMC

① Test conditions: 95% DOD, 0.5C charge & discharge @+25°C

② Current is affected by the number of batteries connected in parallel as well as temperature and SOC

③ Test conditions: 25 ± 2°C, 0.5C charge & discharge, 70%EOL