LFP12-100 12V 100Ah (10hr)

Attention:

- When the battery needs to be used in parallel or in series, each battery shall be fully charged according to the standard charging method before parallel or in series.
- Duration of maximum constant current is thermally limited by internal electronics and depends on ambient temperature.

Nominal Characteristics

DWIR YON

Nominal Voltage	Nominal Capacity	Energy	IR	Efficiency	Maximum Batteries in Series and Parallel
12.8 V	100Ah	1280Wh	≤ 12mΩ @ 100% SOC	≥ 99.5 %	2 x 4

General Features

- Iron-V Lithium Iron Phosphate Battery
- Cost Effectiveness
- Longer Service Life
- · Guaranteed Safety
- Fast Charge
- Drop-in Replacement

Mechanical Characteristics

Case Material	ABS
Length (mm)	306
Width (mm)	169
Height (mm)	215
Weight (kg)	10.3
Terminal Type	M8
IP Grade	/
BCI Group NO.	27
Cell Type-Chemistry	Prismatic LiFePO ₄

Charge & Discharge Characteristics

Voltage Window	10.8-14.6V
Max. Continuous Charge Current	100A
Max. Continuous Discharge Current	100A
Peak Discharge Current	200A (15s ± 2s)
Recommended charge current/A	50A
Recommended discharge current/A	50A
Charge current cut-off/A	3A

BMS Characteristics

Primary Charging Protection	Current: >105.0 ± 2.5A	ι.		
	Delay time:15 ± 2s			
Secondary Charging Protection	Current: >125.0A ± 2.5	A		
	Delay time: 3 ± 1s			
Primary Discharging Protection	Current: >105.0 ± 2.5A	L .		
	Delay time: 20 ± 1s			
Secondary Discharging Protection	Current: >210.0A ± 2.5	A		
	Delay time: 3 ± 1s			
Over-charge Voltage Protection	Voltage: >14.8 ± 0.2V			
	Delay time: 2 ± 0.5s			
Over-discharge Voltage Protection	Voltage: <9.6 ± 0.2V			
	Delay time: 2 ± 0.5s			
High Temperature Protection	Charging: 65 ± 3℃	Recover: 60 ± 3°C		
	Discharging: 65 ± 3°C	Recover: 60 ± 3°C		
Low Temperature Protection	Charging: 0 ± 3°C	Recover: 3 ± 3°C		
	Discharging: -20 ± 3°C	Recover: -15 ± 3°C		

Operating Conditions

Cycle Life
Operating Temperature

Storage Temperature Storage Duration **Heating Function**

≥2000 Charge: 10°C ~ 45°C Discharge: -20°C ~ 55°C 20°C~30°C 12 months at 25°C Charging heating (Optional) <1°, ON >6°C, OFF



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Constant Current Discharge Data (Amperes at 25°C)

	1h	2h	3h	5h	10h
Cut-off voltage (10.8V)	100A	50A	33.3A	20A	10A

Constant Power Discharge Data (Watt at 25°C)

	1h	2h	3h	5h	10h
Cut-off voltage (10.8V)	1150W	580W	388W	234W	118W











