

12.8v 20ah lithium Iron Battery

Lithium
Iron Phosphate Battery



Features

Cost
Effectiveness



Longer
Service Life



Guaranteed
Safety



Fast Charge



Drop-in
Replacement



Technical Characteristics

NORMINAL CHARACTERISTICS

Nominal Voltage	12.8 V
Nominal Capacity	20Ah
Energy	256Wh
IR	≤35mΩ@100%SOC
Efficiency	≥99.5%
Maximum Modules in Series	2 (Single Use)

CHARGE & DISCHARGE CHARACTERISTICS

Voltage Window	10.8-14.6V
Max. Continuous Charge Current	20A
Max. Continuous Discharge Current	30A
Peak Discharge Current	80A (10s)
Recommended charge current/A	10A
Recommended discharge current/A	10A
Charge current cut-off/A	0.6A

OPERATING CONDITIONS

Cycle Life	≥2000
Operating Temperature	Charge: 10°C~45°C Discharge: -20°C~55°C
Storage Temperature	20°C ~ 30°C
Storage Duration	12 months at 25°C

MECHANICAL CHARACTERISTICS

Case Material	ABS
Dimension (L*W*H)	181*77*167
Weight	3.3Kg
Terminal Type	F13 (M5)
IP Grade	/
BCI Group NO.	/
Cell Type-Chemistry	Prismatic LiFePO ₄

BMS CHARACTERISTICS

Primary Charging Protection	Current: 40~60A
	Delay time: 15±2s
Secondary Charging Protection	Current: ≥60A
	Delay time: 3±1s
Primary Discharging Protection	Current: 45~80A
	Delay time: 15±2s
Secondary Discharging Protection	Current: 80~133A
	Delay time: 3±1s
Over-charge Voltage Protection	Voltage: ≥14.8V
	Delay time: 1~2s
Over-discharge voltage protection	Voltage: ≤9.6V
	Delay time: 1~2s
High Temperature Protection	Charging: 65±3°C 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

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Constant Current Discharge Data (Amperes@25°C)

	1h	2h	3h	5h	10h
Cut-off voltage (10.8V)	20A	10A	6.66A	4A	2A

Constant Power Discharge Data (Watt@25°C)

	1h	2h	3h	5h	10h
Cut-off voltage (10.8V)	230W	116W	77.6W	46.8W	23.6W

Cycle No. Vs DOD%

