

Specifications	LiFeBlue LB12100-SC
Capacity	100AH
Nominal Voltage	12.8 Volts
Full Charge Resting Voltage	13.32 Volts
Energy Storage	1300 Wh (1.3kWh)
Run Time @ 25 Amp Load	4 Hours @ 77°F (25°C)
Self Discharge Rate	7mA; Sleep 500µA
Wireless Data Communications	Bluetooth BLE, 4.0 or above
Charging	
Charging Temperature Range	32°~119°F (140°F Max)
Charge Method	IUoU; Bulk, Absorb, Float
Absorb Voltage (Uo) (CV)	14.0 to 14.6 Volts
Float Voltage (I)	13.6 to 13.8 Volts
Maximum Current	80 Amps @ 77°F
Recommended Current	60 Amps
Recommended CV Time (Absorb)	15 minutes
Charge Efficiency	99%
Discharging	
Discharge Temperature Range	-4°F~140°F (-20°C~60°C)
Discharge Current	100 Amps Continuous
Discharge Current, 3 seconds	300 Amps
Discharge Cut Off Voltage	2.0 Volts, any cell (8 Volts)
Recommended Low Voltage Disconnect	11 Volts
Short Circuit Protection	500A for 500µs
Short Circuit Protection release	30 Seconds

LiFeBlue Battery Model LB12100-SC



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Battery Protection	LiFeBlue LB12100-SC
EMS Control	PCM
Over Voltage, per cell, Open	3.8 Volts, ±0.03 Volts (15.2V)
Over Voltage, per cell, Release	3.6 Volts, ±0.05 Volts (14.4V)
Over Discharge, per cell, Open	2.0 Volts, ±0.05 Volts (8V)
Over Discharge, per cell, release	2.3 Volts, ±0.05 Volts (9.2V)
Over Current	>420 Amps; 6 Seconds
Over Current Release	30 Seconds
Over Temperature	149°F (65°C)
Over Temperature release	131°F
Low Temperature Charge, Open	32°F
Low Temperature Charge, Release	35°F
MOSFET Over Temperature, Open	212° F
MOSFET Over Temperature, Release	158° F
Mechanical	
Length	12.5"
Width	6.5"
Height	8.5"
Weight	28 Pounds (25.4 kg)
Hardware	M8 bolt, washer, lock washer
Hardware Torque	80 in-lb. (9 N-m)
Miscellaneous	
Packs in Parallel	4 (maximum recommended)
Packs in Series	1, 2, 3 or 4
Discharge Test Setting	100% DoD @ 1C
Discharge Test Results	>2800 Cycles~83% remaining capacity
Storage Method	50% SoC, test @ 90 Days, recharge if below 13.0V
Storage temperature Range (recommended)	-4°F~95°F (-20°C~35°C)
Lithium Ion Chemistry	Lithium Iron Phosphate (LFP; LiFePO4)
Cell Type	Nano Prismatic
Internal Impedance (50% SoC, 1kHz)	<20mΩ
Certifications	UL1642; IEC62133; TUV CB; CE; UN38.3; ISO9001-2009; ISO14001; OHSAS18001; TS16949