



## Benefits

- At least double the power in the same physical space of lead acid.
- Can be discharged 100% vs lead acid recommended 50% depth of discharge.
- Can be installed indoors with no hydrogen gases generated, also no terminal corrosion.
- About 1/5 the weight of a lead acid battery, resulting in a significant weight reduction over your current battery bank.
- Output voltage is flat during most of the discharge cycle, increasing efficiency of your system.
- Can be charged up to 5 times faster than lead acid.
- Last 10 times longer than lead acid.
- 3000-4000 cycles @ 80% DOD
- Warranty:3 Years

### ► Details:

Mechanical Properties	Dimensions Length	330mm/12.9inch
	Dimensions Width	173mm/6.8inch
	Dimensions Height	220mm/8.7inch
	Weight	11.5kg/25.5lb
	Housing Material	ABS+PC
	Terminal Model	M8
Electric Characteristics	Internal Resistance	≤20mΩ
	Nominal Voltage	12.8V
	Rated Capacity (0.2C)	100Ah
	Efficiency	99%
	Energy	1280Wh
	Self Discharge	≤3% Per Month
Charging Parameters & Discharging Parameters	Charge Voltage	14.4 ± 0.2V
	Maximum Charge Current	100A
	Charge Cut-off Voltage	14.6V
	Maximum Continuous Discharge Current	100A
	Discharge Cut-off Voltage	≥10V
Operation & Storage Temperature Range	Discharge Temperature	-4 to 140 °F (-20 to 60 °C)
	Charge Temperature	32 to 113 °F (0 to 45 °C)
	Storage Temperature	23 to 95 °F (-5 to 35 °C)

## BMS Info:

	Testing	Standard
Voltage	Charge Voltage	DC:14.4V 3.6/Cell
	Balance Voltage(Single cell)	3.60±0.025V
Current	Balance Current (single cell)	36±5mA
	Self-discharge current	≤20μA
	Maximum continuous charge current	100A
	Maximum continuous discharge current	100A
Cell Over charge Protection	Overcharge detection voltage	3.90±0.025V
	Overcharge detection delay time	0.5S—2S
	Overcharge release voltage	3.80±0.025V
Cell Over-discharge Protection	Over-discharge detection voltage	2.00±0.05V
	Over-discharge detection delay time	10ms—200ms
	Over-discharge release voltage	2.30±0.05V
Over-current Protection	Over-current testing voltage	0.10±0.015V
	Over-current protection current	550±50A
	Over-current detection delay time	5ms—20ms
	Protection release condition	Disconnected load
Short-circuit Protection	Testing	Short-circuit
	Detection delay time	200-500us
	Release condition	Disconnected load
Balance	Balance threshold voltage	3.60V
	Balance current	40±5mA
Internal Impedance	Protection(MOSFET)	≤20mΩ
Temperature(T) protection	Working Temperature	-40~+65℃
	Storage Temperature	-40~+125℃
BMS Size:L174*W157*T13mm		

## Included BMS Picture

