LiLead

ESS-15 LIFEPO4 BATTERY DATA SHEET(51.2V/280Ah)

Canbus/RS485/RS232 protocol compatible

Design Life: 10 years
Warranty: 5 years

Length	Width	Height
446mm	250mm	882mm
17.6in	9.9in	34.7in

BMS PROTECTION

Balance	Current	30mA
	Activate volt	>3.4V/ cell & Cell Voltage difference > 30mV
High temperature protection(MOSFET)	Protection	115℃ / 239°F
	Alarm	90℃ / 194°F
	Release	85℃ / 185°F
High temperature protection (cell)	Protection	65℃/149°F (charge)
		70℃/158°F (discharge)
	Alarm	60℃/140°F (charge)
		65℃/149°F (discharge)
	Release	55℃/131°F (charge)
		60℃/140°F (discharge)
Low temperature protection (cell)	Protection	0℃/32°F (charge)
		-20℃/ -4°F (discharge)
	Alarm	5℃/41°F (charge)
		−15℃/5°F (charge)
	Release	5℃/41°F (charge)
		−15℃/5°F (discharge)
Heating (option)	Activate	Temp ≤5℃ & Charge current ≥4A
	Release	Temp >15℃ & Charge current <4A
Over-charge	Protection	58.4V (3.65V/cell)
	Alarm	57.6V (3.6V/cell)
	Release	54.08V (3.38V/cell) or SOC＜96%
Over-discharge	Protection	43.2V (2.7V/cell)
	Alarm	44.8V (2.8V/cell)
	Release	47.2V (2.95V/cell) or charge the battery
Primary over-current	Protection	210A(1S)
	Alarm	205A
	Release	Automatic release after 60S
Secondary over-current	Protection	260A(0.5S)
	Release	Automatic release after 60S or charge current >1A
Short-circuit	Protection	Yes
	Release	Remove load or charge the battery
Lose Efficacy	Activate	cell volt difference＞1V (battery can't charge & discharge)
BMS record	Capacity	≥1000 records

BATTERY TECH DATA

Stored energy		14336Wh
Rated capacity		280Ah
Nominal voltage		51.2V
Volt range		43.2-57.6V
Charge time	Standard	3.5h
	Rapid	2.2h
Charge method CC-CV	Standard	100A/56V
	Rapid	200A/56V
Max discharge current	Peak(0.5S)	210A(0.5S)
	Continuous	200A
Cycle life 0.5C,23℃/73°F	80%	>7000 cycles
Operating temperature range	Charge	0℃~60℃/ 32°F~140°F
	Discharge	-10℃~60℃ /−4°F~140°F
	Storage(1month)	-20℃~45℃/ -4°F~113°F
	Storage(6month)	0℃~35℃/ 32°F~95°F
Communication port		RS232/RS485/CAN
Approx weight		140kg /309lbs
Series & parallel connection		Max 16 batteries in parallel connection. Series connection is not available.

APPLICATION SCENARIOS

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