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S110 BATTERY DATA SHEET (12.8V/110Ah)



Liquid Silver Tech



IP67 UN38.3



Length 279mm/11in Width 175mm/6.9in Height 189mm/7.4in

BATTERY VOLT&STATUS		
SOC	20A discharge	OCV
100%		13.4V
90%	13.19V	13.3V
80%	13.17V	13.3V
70%	13.15V	13.3V
60%	13.05V	13.2V
50%	12.99V	13.15V
40%	12.98V	13.14V
30%	12.94V	13.1V
20%	12.79V	12.79V
10%	12.61V	12.8V

BATTERY TECH DATA	
Stored energy	1350Wh
Rated capacity	110Ah
Nominal voltage	12.8V
Volt range	10V-14.6V
Charge time	Standard 5.5h
	Rapid 1.5h
Charge method	Standard 22A/14.6V
	CC-CV Rapid 100A/14.6V
Max discharge current	Crank 800A
	Surge (30S) 400A
	Continuous 100A
Cycle life	10% >6000 cycles
	0.5C,23°C/73°F 100% >2000 cycles
Operating temperature range	Charge 0°C~55°C/ 32°F~131°F
	Discharge -20°C~60°C/ -4°F~140°F
	Storage(1month) -20°C~45°C/ -4°F~113°F
	Storage(6month) -10°C~35°C/ 14°F~95°F
Water proof	IP67
Flammability rating	UL94-V0
Approx weight	11Kg/ 24.3lbs
Series & parallel connection	Max 4 series connection.Multiple parallel connection for yachts. Batteries must be the same volt before series or parallel connection.

BMS PROTECTION		
Balance	Current	40mA
	Activate volt	3.55V/ cell
High temperature protection(MOSFET)	Protection	85°C/ 185°F
	Release	75°C/ 167°F
High temperature protection (cell)	Protection	65°C/149°F (charge)
		70°C/158°F (discharge)
	Release	55°C/131°F (charge) 60°C/140°F(discharge)
Low temperature protection (cell)	Protection	0°C/32°F (charge)
		-20°C/ -4°F (discharge)
	Release	10°C/50°F(charge) -10°C/ 14°F(discharge)
Over-charge	Protection	15.4 V (3.85V/cell)
	Release	14.6 V (3.65V/cell)
Over-discharge	Protection	9.2V (2.3V/cell)
	Release	10.0V (2.5V/cell)
Short-circuit	Protection	3000A
	Release	Remove load for the short circuit protection to release

APPLICATION SCENARIOS



BOAT



TROLLING MOTOR



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