



AYAA TECHNOLOGY CO.,LTD

PCM Specifications

Model: AY-SH16S150A-H904 (16S)

Test item (Test at normal temperature 25±2℃)		Criterion			
Battery type classification		LF	LI	Adjustable	
Communication Interface		RS485/RS232/CAN		YES	
Voltage	Charging voltage	DC: 51.2V CC/CV (3.2V/Cell) 16s		DC: 67.2V CC/CV (4.2V/Cell) 16s	YES
Supply Current	Maximal continuous charging current	150A		YES	
	Maximal continuous discharging current	150A		YES	
	Current consume in normal operation	≤15mA		/	
	Current consume in sleep operation	≤150uA		/	
Balanced	Active balance current for single cell	2A		/	
	Balance voltage for single cell	3.5±0.05V	4.0±0.05V	YES	
	Turn on the pressure difference	50mV		YES	
Over-Charge Protection (single cell)	Over charge detection voltage	3.65±0.05V	4.25±0.05V	YES	
	Over charge detection delay time	1.0S		YES	
	Over charge release voltage	3.55±0.05V	4.15±0.05V	YES	
Over-Discharge Protection (single cell)	Over discharge detection voltage	2.5±0.05V	2.7±0.05V	YES	
	Over discharge detection delay time	1.0S		YES	
	Over discharge release voltage	2.8±0.05V	3.0±0.05V	YES	
Charge Over Current Protection	Charge Over current detection current	170±3A		YES	
	Detection delay time	1.0S		YES	
	Release conditions	Removing the charger release		/	
Discharge Over Current Protection	Discharge Over current detection current 1	300±3A		YES	
	Detection delay time	10.0S		YES	
	Discharge Over current detection current 2	400±3A		YES	
	Detection delay time	1.0S		YES	
	Release conditions	Removing the load is lifted		/	
Short Protection	Detection condition	Battery B + Short Circuit for P-Connection Head		/	
	Detection delay time	200-600uS		YES	
	Release condition	Remove load		/	
SOC	accuracy(It takes a charge-discharge cycle to achieve the accuracy requirement after initial power-on.)	5%~8%		/	
Temperature	Low temperature protection when charge	0℃		YES	
	Release temperature(low temperature protection)	5℃		YES	
	Over temperature protection when charge	60℃		YES	
	Release temperature(over temperature protection)	55℃		YES	
	Low temperature protection when discharge	-15℃		YES	
	Release temperature(low temperature protection)	-10℃		YES	
	Over temperature protection when discharge	65℃		YES	
	Release temperature(over temperature protection)	55℃		YES	
	Operating Temperature Range	-40~+85℃		/	
Storage Temperature Range	-40~+125℃		/		

SIZE: L300 * W120 * T40 mm

NTC:10K NTC

Heater: /

Braking Resistors: /

Equalization Method: Active

Temperature switch: / ℃ (the batteries temperature)

Weak current switch: YES

Activation Method: /

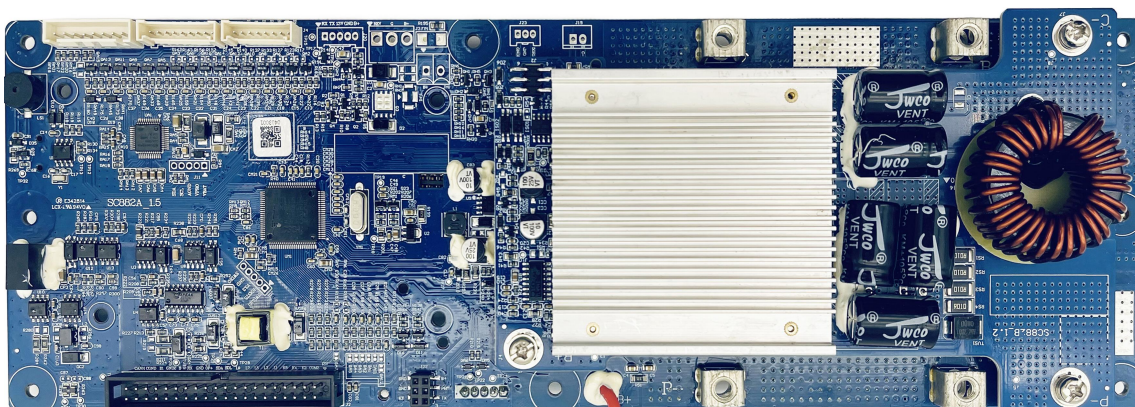
Optional configuration: LCD display screen: YES

LED light board: /

Bluetooth mode: YES

4G: YES

GPS: YES



Prepared: Zhang 2024-11-27

Checked:

Approved:

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