



AYAA TECHNOLOGY CO.,LTD

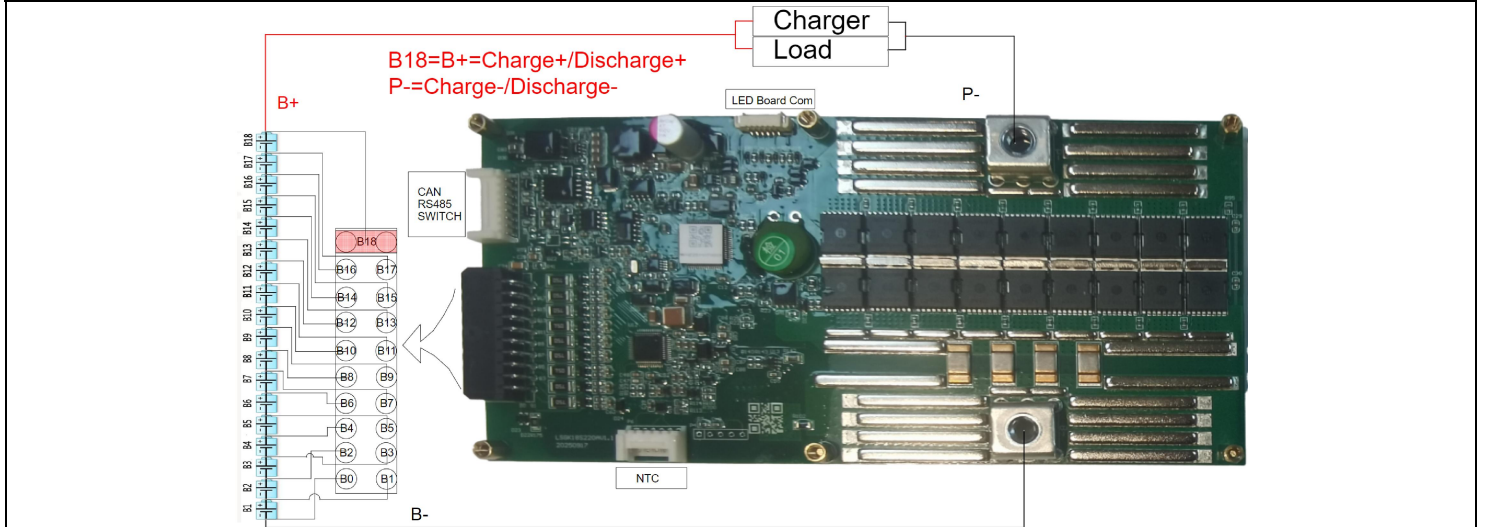
BMS Specifications

Model: AY-L18S250A-M116 (LI-18S250A) Ver: A

Test item (Test at normal temperature 25±2℃)		Criterion
Communication Interface [Protocol:CAN(UAVCAN),RS485(UpperSoftware:SWVision30SGKV1.0)]		RS485&CAN
Voltage	Charging voltage	DC: 75.6V CC/CV (4.2v/Cell) 18S
Supply Current	Maximal continuous charging current	250A
	Maximal continuous discharging current	250A
	Peak current / Peak Duration	380A / 1S~2S
	Current consume in normal operation	≤12mA
	Current consume in sleep operation	≤150uA
Balanced	Balance voltage for single cell	4.0±0.05V
	Balance current for single cell	50±10mA
Over-Charge Protection (single cell)	Over charge detection voltage	4.25±0.05V(Adjustable)
	Over charge detection delay time	1.0S(Adjustable)
	Over charge release voltage	4.15±0.05V(Adjustable)
Over-Discharge Protection (single cell) (Fly Invaidd)	Over discharge detection voltage	2.8±0.05V(Adjustable)
	Over discharge detection delay time	1.0S(Adjustable)
	Over discharge release voltage	3.0±0.05V(Adjustable)
Charge Over Current Protection	Charge over current detection current	100A±3%(Adjustable)
	Detection delay time	1.0S(Adjustable)
	Release conditions	Removing the charger release
Discharge Over Current Protection (Fly Invaidd)	Discharge over current detection current 1	400A±3%(Adjustable)
	Detection delay time 1	5.0S(Adjustable)
	Discharge over current detection current 2	500A±3%(Adjustable)
	Detection delay time 2	1.0S(Adjustable)
	Release conditions	Removing the load is lifted
Short Protection (Fly Vaidd)	Detection condition	Battery B + Short Circuit for P- Connection Head
	Detection delay time	200uS
	Release condition	Remove load
SOC	accuracy(It takes a charge-discharge cycle to achieve the accuracy requirement after initial power-on.)	1%~3%
Temperature (The "discharge temperature detection" function can't provide protection,it only gives an alarm signal.)	Low temp. protection when charge	0°C(Adjustable)
	Release temp. (low temp. protection)	5°C(Adjustable)
	Over temp. protection when charge	50°C(Adjustable)
	Release temp. (over temp. protection)	45°C(Adjustable)
	Low temp. alarm when discharge	-20°C(Adjustable)
	Release temp. (low temp. alarm)	-15°C(Adjustable)
	Over temp. alarm when discharge	55°C(Adjustable)
	Release temp. (over temp. alarm)	50°C(Adjustable)
	Mosfet Over temp. protection	100°C(Adjustable)
	Release temp. (over temp. protection)	70°C(Adjustable)
Operating Temperature Range		-40~+85℃
Storage Temperature Range		-40~+125℃

SIZE: L180 * W90 * T45 mm

NTC: 10KΩ Temperature switch: / °C (the batteries temperature) Weak current switch: Yes Activation Method: /



Prepared: Zjh 2025-11-26

Checked:
Form number: AY-ENBG-007A0

Approved: