



BMS Specifications

Model: AY-CX4S100A-H120 (LI-3S10A)

Ver: A

Test item (Test at normal temperature 25±2℃)		Criterion
Communication Interface		RS485/BLE
Voltage	Charging voltage	DC: 12.6V CC/CV (4.2v/Cell) 3S
Supply Current	Maximal continuous charging current	10A
	Maximal continuous discharging current	10A
	Current consume in normal operation	≤20mA
	Current consume in sleep operation	≤1mA
Balanced	Balance voltage for single cell	4.0±0.05V(Adjustable)
	Balance current for single cell	42±10mA
	Turn on the pressure difference	20mV(Adjustable)
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)	Over discharge detection voltage	2.7±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	15±2A(Adjustable)
	Detection delay time	1.0S(Adjustable)
	Release conditions	Removing charger release
Discharge Over current protection	Discharge over current detection current 1	20±2A(Adjustable)
	Detection delay time 1	3.0S(Adjustable)
	Discharge over current detection current 2	30±2A(Adjustable)
	Detection delay time 2	1.0S(Adjustable)
	Release conditions	Removing the load is lifted
Short protection	Detection condition	Battery B + Short Circuit for P-Connection Head
	Detection delay time	400uS
	Release condition	Remove load release
SOC	accuracy(It takes a charge-discharge cycle to achieve the accuracy requirement after initial power-on.)	≤3%
Temperature	Low temp. protection when charge	-20℃(Adjustable)
	Release temp. (low temp. protection)	-15℃(Adjustable)
	Over temp. protection when charge	55℃(Adjustable)
	Release temp. (over temp. protection)	50℃(Adjustable)
	Low temp. protection when discharge	-40℃(Adjustable)
	Release temp. (low temp. protection)	-35℃(Adjustable)
	Over temp. protection when discharge	70℃(Adjustable)
	Release temp. (over temp. protection)	65℃(Adjustable)
	Operating Temperature Range	-40~+85℃
	Storage Temperature Range	-40~+125℃

SIZE: L120 * W70 * T14 mm

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

