



AYAA TECHNOLOGY CO.,LTD

PCM Specifications

Model: AY-LB4S7A-T005 BQ40Z50R1 Ver:

Test item (Test at normal temperature 25±2℃)		Criterion
Communication Interface		SMBUS
Voltage	Charging voltage	DC: 16.8V CC/CV (4.2v/Cell) 4s
Supply Current	Normal current consumption	≤500uA
	Maximal continuous charging current	7A
	Maximal continuous discharging current	7A
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	2.50±0.1V(Adjustable)
	Over discharge detection delay time	1.0S(Adjustable)
	Over discharge release voltage	3.0±0.1V(Adjustable)
Current Protection (Battery pack)	ChargeOver current detection current 1	8±1A(Adjustable)
	Detection delay time 1	3.0S(Adjustable)
	ChargeOver current detection current 2	9±1A(Adjustable)
	Detection delay time 2	2.0S(Adjustable)
	Discharge Over current detection current 1	15±2A(Adjustable)
	Detection delay time 1	2.0S(Adjustable)
	Discharge Over current detection current 2	22±2A(Adjustable)
	Detection delay time 2	1.0S(Adjustable)
Short Protection	Release condition	Cut load,Auto Recovery
	Detection condition	Exterior short circuit
	Detection delay time	400uS(Adjustable)
Resistance	Release condition	Cut load
	Main loop electrify resistance	≤ 60mΩ
Temperature	Low temp. protection when charge	0℃(Adjustable)
	Release temp. (low temp. protection)	5℃(Adjustable)
	Over temp. protection when charge	60℃(Adjustable)
	Release temp. (over temp. protection)	55℃(Adjustable)
	Low temp. protection when discharge	-15℃(Adjustable)
	Release temp. (low temp. protection)	-10℃(Adjustable)
	Over temp. protection when discharge	65℃(Adjustable)
	Release temp. (over temp. protection)	55℃(Adjustable)
	Operating Temperature Range	-40~+85℃
Storage Temperature Range	-40~+125℃	

SIZE: L60 * W35 * T7 mm

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

