



AYAA TECHNOLOGY CO.,LTD

PCM Specifications

Model: PCM-LB24S100A-AY233 (LI-8S80A)

Test item		Criterion	
		Lifepo4	Li-ion/Li-polymer
Voltage	Charging voltage	DC 28.8V CC/CV(3.6V/cell)	DC:33.6V CC/CV(4.2V/cell)
	Balance voltage for single cell	/	/
Current	Current consumption for single cell	$\leq 50\mu\text{A}$	$\leq 50\mu\text{A}$
	Maximal continuous charging current	20A	80A
	Maximal continuous discharging current	20A	80A
	Balance current for single cell	/	/
Over charge Protection (single cell)	Over charge detection voltage	$3.90\text{V}\pm 0.025\text{V}$	$4.25\pm 0.025\text{V}$
	Over charge detection delay time	0.5-2.0S	0.5S—2.0S
	Over charge release voltage	$3.80\pm 0.05\text{V}$	$4.05 \pm 0.1\text{V}$
Over discharge protection (single cell)	Over discharge detection voltage	$2.00\pm 0.8\text{V}$	$2.5\pm 0.08\text{V}$
	Over discharge detection delay time	10-200mS	10-200mS
	Over discharge release voltage	$2.3\pm 0.1\text{V}$	$3.0\pm 0.1\text{V}$
Over current protection (Battery pack)	Over current detection current	final data fixed from actual test	final data fixed from actual test
	Over current detection voltage	depend on the above points	depend on the above points
	Detection delay time	5-50ms	5-50ms
	Release condition	Cut load,Auto release	Cut load,Auto release
Short protection	Detection condition	Exterior short circuit	
	Detection delay time	200~600us	
	Release condition	charge up	
Resistance	Protection circuitry	$\leq 50\text{m}\Omega$	
Temperature	Operating Temperature Range	$-40\sim +85^{\circ}\text{C}$	
	Storage Temperature Range	$-40\sim +125^{\circ}\text{C}$	

SIZE: L90*W65*T10mm

Optional Parameters:	Over charge detection voltage (V)	$4.28\pm 0.025\text{V}$	$4.25\pm 0.025\text{V}$	$3.65\pm 0.025\text{V}$
	Over charge release voltage(V)	$4.10\pm 0.05\text{V}$	$4.05\pm 0.05\text{V}$	$3.65\pm 0.05\text{V}$
	Over discharge detection voltage	$3.00\pm 0.8\text{V}$	$2.80\pm 0.8\text{V}$	$2.50\pm 0.8\text{V}$
	Over discharge release voltage(V)	$3.20\pm 0.1\text{V}$	$3.00\pm 0.1\text{V}$	$3.00\pm 0.1\text{V}$

