



AYAA TECHNOLOGY CO.,LTD

PCM Specifications

Model: PCM-L12S25-513 (10S)

Test item		Criterion	
		Lifepo4	Li-ion/Li-polymer
Voltage	Charging voltage	DC 36V CC/CV(3.6V/cell)	DC 42V CC/CV(4.2V/cell)
	Balance voltage for single cell	3.60±0.025V	4.20±0.025V
Current	Current consumption for single cell	≤20μA	≤20μA
	Maximal continuous charging current	14A	14A
	Maximal continuous discharging current	14A	14A
	Balance current for single cell	36±5mA	42±5mA
Over charge Protection (single cell)	Over charge detection voltage	3.90V±0.025V	4.25±0.025V
	Over charge detection delay time	0.5-2.0S	0.5S—2.0S
	Over charge release voltage	3.80±0.05V	4.15 ±0.05V
Over discharge protection (single cell)	Over discharge detection voltage	2.00±0.8V	2.5±0.08V
	Over discharge detection delay time	10-300mS	10-300mS
	Over discharge release voltage	2.3±0.1V	3.0±0.1V
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	5-20ms	5-20ms
	Release condition	Cut load,Auto release	Cut load,Auto release
Short protection	Detection condition	Exterior short circuit	
	Detection delay time	100~500us	
	Release condition	charge up	
Resistance	Protection circuitry	≤50mΩ	
Temperature	Operating Temperature Range	-40~+85℃	
	Storage Temperature Range	-40~+125℃	

SIZE: L80*W60*T20mm

Optional Parameters:	Over charge detection voltage (V)	4.28±0.025V	4.25±0.025V	3.65±0.025V
	Over charge release voltage(V)	4.08±0.05V	4.05±0.05V	3.65±0.05V
	Over discharge detection voltage	3.00±0.8V	2.80±0.8V	2.50±0.8V
	Over discharge release voltage(V)	3.00±0.1V	3.00±0.1V	3.00±0.1V

