

Protection Circuit Module Specifications For 16V LiFePO4 Battery Packs

Model: PCM-LFP-45AS5

No.	Test item	Criterion	
1	Voltage	Charging voltage	DC: 18V CC/CV (3.6V/1cell)
		Balance voltage for single cell	3.6V±0.03V
2	Current	Balance current for single cell	72mA±5mA
		Current consumption for single cell	≤20 μA
		Maximal continuous charging current	45A
		Maximal continuous discharging current	45A
3	Over charge Protection (single cell)	Over charge detection voltage	3.90±0.025V
		Over charge detection delay time	0.5S—2S
		Over charge release voltage	3.80±0.05V
4	Over discharge protection (single cell)	Over discharge detection voltage	2.0±0.05V
		Over discharge detection delay time	100—250mS
		Over discharge release voltage	2.3±0.1V
5	Over current protection	Over current detection voltage	0.1±0.025V
		Over current detection current	100±10A
		Detection delay time	5ms—20ms
		Release condition	Cut load
6	Short protection	Detection condition	Exterior short circuit
		Detection delay time	200-800us
		Release condition	Cut load
7	Resistance	Protection circuitry (B- TO P-)	≤30mΩ
8	Temperature	Operating Temperature Range	-40~+85℃
		Storage Temperature Range	-40~+125℃
		Over Temperature protection (discharge)	65±5℃

P+=B+=Charge+/Discharge+

P-=Charge-/Discharge-

Size: L126*W66*T5mm

