

Protection Circuit Module Specifications For 12.8V LiFePO4 Battery Packs

Model: PCM-SM6-12.8

No.	Test item	Criterion	
1	Voltage	Charging voltage	DC: 14.4V CC/CV (3.60V/cell)
		Balance voltage for single cell	
2	Current	Balance current for single cell	
		Current consumption for single cell	$\leq 50 \mu A$
		Maximal continuous Discharging current	4A
3	Over charge Protection (single cell)	Over charge detection voltage	$3.900 \pm 0.025 V$
		Over charge detection delay time	0.3S—2S
		Over charge release voltage	$3.800 \pm 0.050 V$
4	Over discharge protection (single cell)	Over discharge detection voltage	$2.00 \pm 0.080 V$
		Over discharge detection delay time (C2=0.47U)	200-700ms
		Over discharge release voltage	$2.50 \pm 0.100 V$
5	Over current protection	Over current detection voltage	$0.15 \pm 0.025 V$
		Over current detection current	$10 \pm 2A$
		Detection delay time (C2=0.47U)	20ms—70ms
		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	$\leq 50m \Omega$
8	Temperature	Operating Temperature Range	-40~+85°C
		Storage Temperature Range	-40~+125°C

P+,P- = Charge+/-,Discharge+/-

