

Protection Circuit Module Specifications For 12.8V (4S) LiFePO4 Battery Packs

Model:WMDC-4S-2-20 (4S)

No.	Test item		Criterion
1	Voltage	Charging voltage	DC:14.4V 3.6V/Cell
		Balance voltage for single cell	3.60±0.025V
2	Current	Balance current for single cell	72±10mA
		Current consumption for single cell	≤20μA
		Maximal continuous charging current	20A
		Maximal continuous discharging current	20A
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	3.8±0.025V
4	Over discharge protection (single cell)	Over discharge detection voltage	2.0±0.05V
		Over discharge detection delay time	10mS—200mS
		Over discharge release voltage	2.3±0.05V
5	Over current protection	Over current detection voltage	0.1±0.015V
		Over current detection current	50±10A
		Detection delay time	5ms—20ms
		Release condition	Cut load, Automatic Recovery
6	Short protection	Detection condition	Exterior short circuit
		Detection delay time	100-600us
		Release condition	Cut load, Automatic Recovery
7	Resistance	Protection circuitry (MOSFET)	≤20mΩ
8	Temperature	Operating Temperature Range	-40~+85°C
		Storage Temperature Range	-40~+125°C

P+=Charge+/Discharge+

P- =Charge-/Discharge-

Size:L100*W49*T15mm

When the voltage across P+, P- is between $8V \pm 0.5V \sim 13V \pm 0.5V$, press the tact switch and S1、D1 LED ON;

When the voltage across P+, P- is between $13V \pm 0.5V \sim 13.15V \pm 0.5V$, press the tact switch and S1、D1、D2 LED ON;

When the voltage across P+, P- is above $13.15V \pm 0.5V$, press the tact switch and S1、D1、D2、D3 all LED ON.

