

Protection Circuit Module Specifications For 12.8V LiFePO4 Battery Pack

Model: PCM-L04S07-427 (4S)

No.	Test item (Test at normal temperature 25±2℃ and relative humidity≤90%)		Criterion
1	Communication Interface		SMBUS
2	Charging voltage		DC: 14.14V CC/CV (3.6V/1cell)
3	Capacity	Designing battery capacity (PCM)	
		External capacity Indication	LED
		Gas gauge algorithm	IT (High accuracy)
4	Current	Normal operating-mode current (Gas Gauge IC)	600 uA
		SLEEP operating-mode current (Gas Gauge IC)	200 uA
		Maximal continuous charging current	7A
		Maximal continuous discharging current	7A
5	Over charge Protection	Over charge detection voltage	3.690±0.025V
		Over charge detection delay time	0.5S—2S
		Over charge release voltage	3.80±0.05V
6	Over discharge protection	Over discharge detection voltage	2.0±0.10V
		Over discharge detection delay time	0.5S—2S
		Over discharge release voltage	2.5±0.1V
7	Over current protection	Over current detection current	30±5A
		Detection delay time	0.5S—2S
		Release condition	Cut load
8	Short protection	Detection condition	Exterior short circuit
		Detection delay time	200-600us
		Release condition	Cut load
9	Resistance 内阻	Protection circuitry (MOSFET)	≤50mΩ
10	Temperature 温度	Operating Temperature Range	-40~+85℃
		Storage Temperature Range	-40~+125℃
		Discharging Temperature Protection	65℃

B+: Battery+

B-: Battery-

SDA: Serial Data interface

SCL: Serial Clock interface

P+: Charge+/discharge+

P-: Charge-/discharge-

Size: L100*W60*T4mm

P+=Charge+/Discharge+

P- =Charge-/Discharge-

SIZE:L100*W60*T4mm

