ENEPOWER

MIPCM-3SXP7ABMS

Protection Circuit Module (PCM)

Lilon | LiPo | LiFePO4

PCM for 3S Lithium Battery Packs

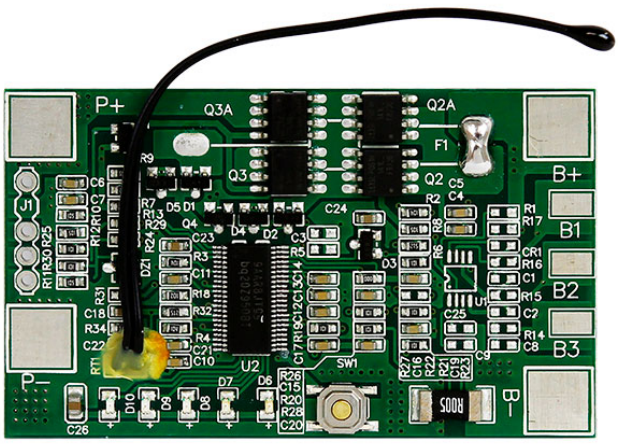
Programmable for LiIon, LiPo, LiFePO4

SPECIFICATIONS

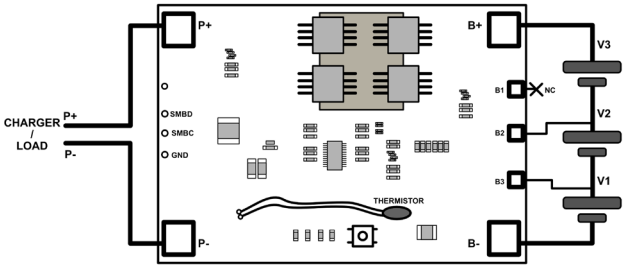
Characteristics				Specification		
1	Electrical Characteristics	**Charging Voltage** (P+, P-)		12.6±0.1V (Remark: 4.2V / 1Cell)		
		Continuous Charging Current (P+, P-)		7A		
		Continuous Discharging Current (P+, P-)		7A		
		Over Current Protection		15±2A		
		Charging Method		CC / CV *(Constant-current & -Voltage with Limited current)*		
		Supply Voltage Range (B+, B-)		–0.3V to 34V		
		Impedance		≤100mΩ (B- to P- and B+ to P+)		
		Current Consumption	**Working**	≤600μA		
			Sleep mode	≤200μA		
		Temperature	**Operating**	-40~+85°C		
			Storage	-40~+125°C		

Test Item *Test at normal temperature 25±2°C and relative humidity ≤90%.*				Criterion		
				Parameter	**Delay Time**	**Release Condition**
2	Over Charge Protection	**Single Cell**	1st Level Safety	4.3V±0.025V	2.0s±0.5s	4.1±0.05V
			2nd Level Safety	4.4±0.025V	1.5s±0.5s	Permanent fail
		Pack	1st Level Safety	12.9±0.05V	2.0s±0.5s	12.3±0.1V
			2nd Level Safety	13.2±0.05V	0	Permanent fail
3	Over Discharge Protection	**Single Cell**		2.9±0.05V	2.0s±0.5s	3.0±0.1V
		Pack		8.9V±0.05V	2.0s±0.5s	12.0±0.1V
4	Over Current Protection	1st Level Safety		3000mA	2S±0.5s	200mA
		2nd Level Safety		5000mA	2S±0.5s	200mA
5	Over Temperature Protection	**Charge**	1st Level Safety	55±5°C	2.0s±0.5s	50±5°C
			2nd Level Safety	65±5°C	0	Permanent fail
		Discharge	1st Level Safety	60±5°C	2.0s±0.5s	55±5°C
			2nd Level Safety	75±5°C	0	Permanent fail
6	Protection IC			BQ20Z95 *Please contact MI engineers for programming options.*		
7	Dimensions			L 60mm x W 36mm x T 4mm		

IMAGE



CONNECTION DIAGRAM



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