

SDECIFICATIONS

MIBMS-3S4A-LI-01 Protection Circuit Module (PCM)

PCM for 10.8/11.1V Lilon Battery Pack



SPECIFICATIONS							
Char	acteristics		Specification				
	Electrical Characteristics	Charging Voltage (P+, P-)		12.6V			
1		Continuous Charging Current (P+, P-)		4A			
		Continuous Discharging Current (P+, P-)		4A			
		Input Voltage for Terminals		5V (B1, B2, B3, B+)			
		Impedance (B-, P-)		≤5mΩ			
		•	Working	≤600µA			
		Current Consumption (+25°C)	Communicating	≤2000µA			
			Sleeping average	≤350µA			
			Bluetooth	≤50µA			
		Temperature	Operating	-40~+85°C			
			Storage	-40~+125°C			
		Humidity	Operating	<75%RH			
		·····,	Storage	<85%RH			
_	-				Criterion		
lest	Item *Test at normal tempe		tive humidity ≤90%.	Parameter	Delay Time	Mode	
2	Over Voltage Protection	Activate		4250mV	2s	Turn OFF charging FET	
	jj	Release		4050mV	0s	Turn ON charging FET	
3	Under Voltage Protection	Activate		2500mV	2s	Turn OFF discharging FET	
	Ū	Release		3000mV	0s	Turn ON discharging FET	
4	Over Current Protection	Charge	Activate (1 st Level)	15A	2s	Turn OFF charging FET	
			Release (1 st Level)	0A	10s	Turn ON charging FET	
			Activate (2 nd Level)	20A	1s	Turn OFF charging FET	
			Release (2 nd Level)	0A	10s	Turn ON charging FET	
		Discharge	Activate (1 st Level)	15A 0A	2s	Turn OFF discharging FET	
			Release (1 st Level)	20A	10s 2s	Cut load, auto release Turn OFF discharging FET	
			Activate (2 nd Level) Release (2 nd Level)	0A	2s 10s	Cut load, auto release	
			Activate (3 rd Level)	25A	31s	Turn OFF discharging FET	
			Release (3 rd Level)	0A	15s	Cut load, auto release	
5	Short Circuit Protection	Activate (1 st Level)		15A	≤500µs	Turn OFF discharging FET	
		Release (1 st Level)		0A	≤15s-	Short circuit release, auto recovery	
		Activate (2 nd Level)		20A	≤250µs	Turn OFF discharging FET	
		Release (2 nd Level)		0A	≤15s-	Short circuit release, auto recovery	
6	Over Temperature Protection - CHARGING	Battery	Activate	55°C	2.0s	Turn OFF charging FET	
			Release	45°C	0	Turn ON charging FET	
		FET	Activate	80°C	2.0s	Turn OFF charging FET	
			Release	65°C	0	Turn ON charging FET	
7	Under Temperature Protection		Activate	-20°C	2.0s	Turn OFF discharging FET	
	- CHARGING		Release	-5°C	0	Turn ON charging FET	
8	Over Temperature Protection - DISCHARGING	Battery	Activate	65°C	2.0s	Turn OFF discharging FET	
		Dattery	Release	55°C	0	Turn ON discharging FET	
		FET	Activate	80°C	2.0s	Turn OFF discharging FET	
			Release	65°C	0	Turn ON discharging FET	
9	Under Temperature Protection		Activate	-20°C	2.0s	Turn OFF discharging FET	
9	- DISCHARGING	Release	-5°C	5.0s	Turn ON charging FET		
10	Cell Balancing			Voltage ≥ 3600mV			
11	Dimensions	L 65mm x W 18mm					



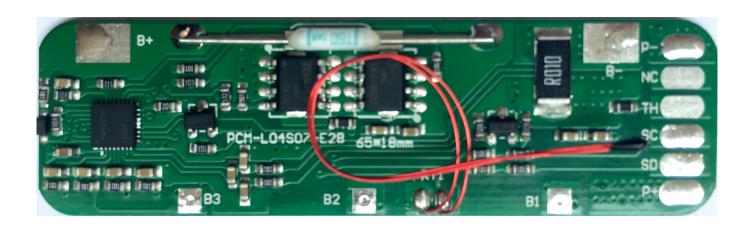


MIBMS-3S4A-LI-01 **ENEPOWER** Protection Circuit Module (PCM)

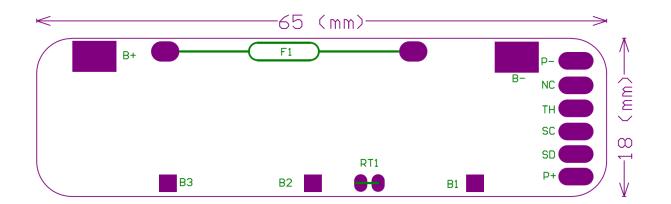
Lilon

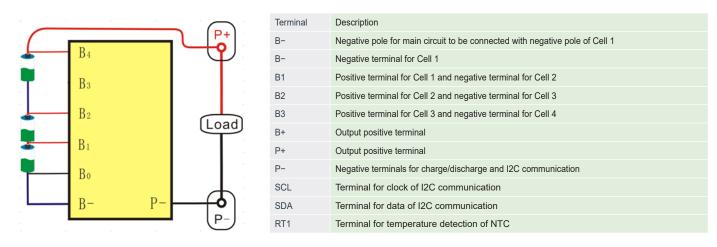
PCM for 10.8/11.1V Lilon Battery Pack

IMAGE



CONNECTION DIAGRAM





Note: the connection between cells and PCB should be followed this order: $B \rightarrow B1 \rightarrow B2 \rightarrow B+$, or it will cause potential damage to the BMS if not followed in this connection order.

