



Lilon

LiFePO₄

LTO

Na-ion

PCM for 8S Battery Pack: Programmable for multiple chemistries

SPECIFICATIONS

Item	Specification				Remark
	MIBMS-8S15A-LNMC-01	MIBMS-8S15A-LFP-01	MIBMS-8S15A-LTO-01	MIBMS-8S15A-NA-01	
1. General					
Stock Code	70000-008-LNMC	70000-008-LFP	70000-008-LTO	70000-008-NA	
Chemistry	Li-Ion NMC	LiFePO ₄	Lithium Titanate	Sodium ion	Programmed for 8S
Dimensions LxWxH	72 x 54 x 9.5mm				
Weight	20g				
PCB Material	FR4. 2oz Copper				
2. IC & Mosfet					
Protection IC	BQ76952				
Gauge IC	N/A				
MosFET	BSC026N08NS5ATMA1(80V)				
Power consumption - active mode	<500µA				
Power consumption - sleep mode	<100µA				
3. Voltage					
Minimum battery pack voltage	20V	16V	12V	16V	
Nominal battery pack voltage	28.8V	25.6V	18.4V	24V	
Maximum battery pack voltage	33.6V	29.2V	23.2V	32V	
4. Charge Characteristics					
4.1 Voltage					
Cell nominal voltage	3.6V	3.2V	2.3V	3V	
Charge voltage	4.2V/cell	3.65V/cell	2.9V/cell	4V/cell	#
Charge over voltage threshold	4.25V/cell	3.7V/cell	2.95V/cell	4.05V/cell	#
Charge over voltage delay time	2s				#
Charge over voltage release	3.9V/cell	3.35V/cell	2.6V/cell	3.7V/cell	#
2nd charge over voltage	4.5V/cell	3.95V/cell	3.2V/cell	4.3V/cell	Permanent fail (blows chemfuse)
2nd charge over voltage delay time	30s				Permanent fail (blows chemfuse)
Balancing start voltage	3.9V/cell	3.35V/cell	2.6V/cell	3.7V/cell	#
Balancing start delta voltage	20mV				#
4.2 Current					
Charge over current threshold	15A				#
Charge over current delay time	426ms				#
Charge over current release	426ms				#
4.3 Temperature					
Charge over temperature threshold	50°C ± 3°C				#
Charge over temperature release	45°C ± 3°C				#
Charge under temperature threshold	0°C ± 3°C				#
Charge under temperature release	5°C ± 3°C				#
Temperature protection delay time	2s				#





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	MIBMS-8S15A-LNMC-01	MIBMS-8S15A-LFP-01	MIBMS-8S15A-LTO-01	MIBMS-8S15A-NA-01	
5. Discharge Characteristics					
5.1 Voltage					
Discharge under voltage threshold	2.5V/cell	2V/cell	1.5V/cell	2V/cell	#
Discharge under voltage delay time	2s				#
Discharge under voltage release	2.7V/cell	2.5V/cell	1.9V/cell	2.5V/cell	#
5.2 Current					
Discharge over current threshold	18A				#
Discharge over current delay time	10s				#
Discharge over current release	0A-10s				#
5.3 Temperature					
Discharge over temperature threshold	60°C ± 3°C				#
Discharge over temperature release	50°C ± 3°C				#
Discharge under temperature threshold	-10°C ± 3°C				#
Discharge under temperature release	0°C ± 3°C				#
Temperature protection delay time	2s				#
6. Maximum Current					
Max continuous charge / discharge current	At 25°C: 18A At 45°C: 15A				
7. Short Circuit					
Short Circuit threshold	20A				#
Short Circuit delay time	330µs ± 15µs				#
Short Circuit release	Load disconnect				#
8. Maximum Temperature					
Chemfuse max temperature	65°C				
9. Polarity					
Reverse polarity protection	No				

indicates factory adjustable





ENEPOWER

MIBMS-8S15A series Protection Circuit Module (PCM)

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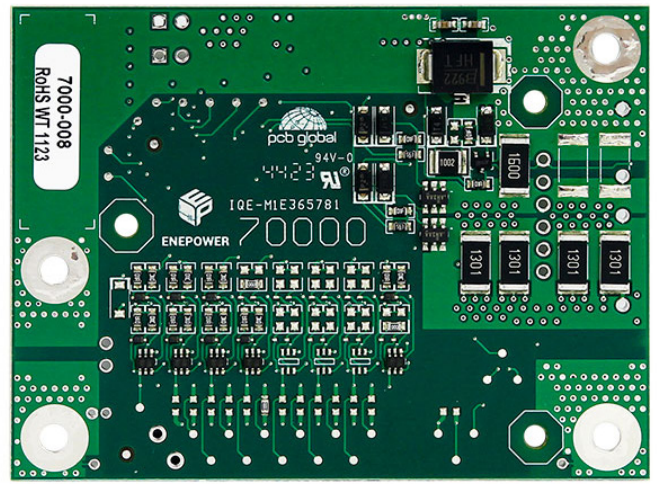
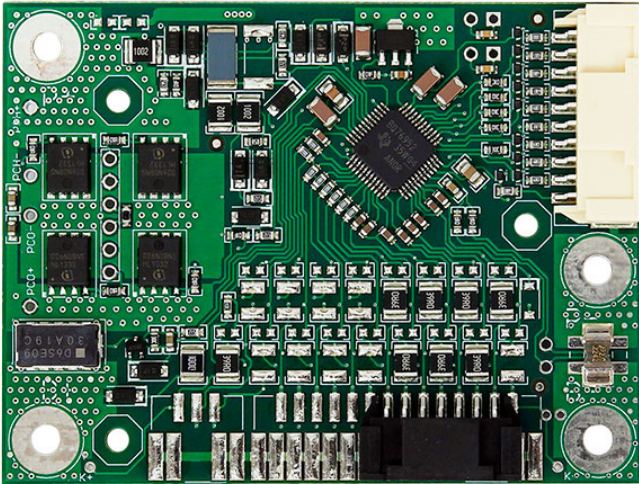
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IMAGE



CONNECTION DIAGRAM

