

## Specification of

CMB for 14.8V Li-Ion Battery Pack (10A limit, RoHS Compliant)  
with DC charging, Fuel Gauge and full protection



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## Technical Parameter

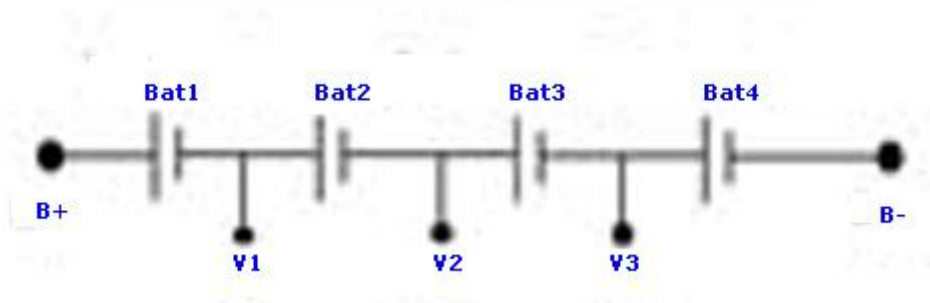
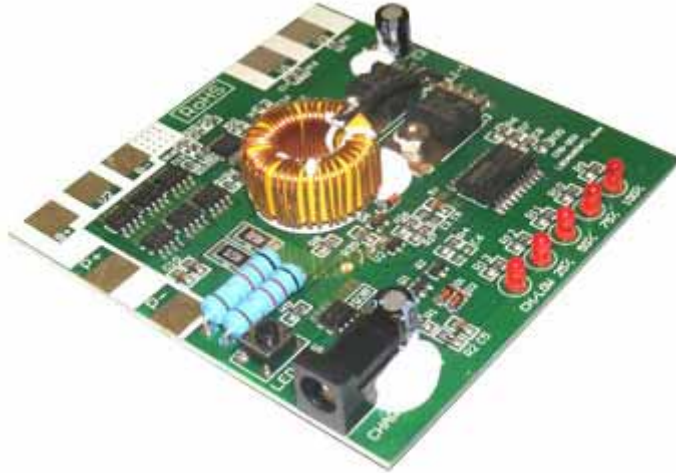
Item	Specification		Remark
Battery pack	14.8V (4S)		Li-ion /Li-polymer
Input power	DC:18-25V		Power supply
Input current	≥2.5A		
Charging Voltage	16.8±0.15V		4.2V / 1Cell
Charging Method	CC/CV		Constant-current and -Voltage with Limited current
Standard Charging Current	charging current	2.7A±0.2A	
Current consumption	Charge Management Circuit	≤3mA	Power supply
	Protection Circuit	≤50uA	Battery pack
Standard Charging Time	Hour (can adjust)		Battery Capacity=Charging Current×1.5
Low voltage alarm	≤12V		3.0V / 1Cell
Short circuit protection	Detection condition	Exterior short circuit	P+,P-
	Release condition	Charge Release	Input
LED condition	Charge	CH/LOW on	CH/LOW LED
	Charge full	CH/LOW off	CH/LOW LED
	Fuel gauge	25%-100%	4 LED
Operating temperature	-40~+85℃		
Storage temperature	-40~+125℃		
Weight	50.0 grams		
Outline dimension	<b>82Lx82Wx20H (mm)</b>		
<b>Protection Circuit Module</b>			
Maximal continuous discharging current	10A		battery pack
Over-current protection	15±2A (Can adjust)		
Over-current delay Time	5ms—15ms		
Over-charge detection voltage	4.35V±0.025V		single cell
Over-charge release voltage	4.15V±0.05V		single cell
Over-charge detection delay time	0.5S—1.5S		single cell
Over-discharge detection voltage	2.40V±0.08V		single cell
Over-discharge release voltage	3.0±0.10V		single cell
Over-discharge detection delay time	50—150ms		single cell
Protection circuit impedance	≤60mΩ		B+ to P+

## Wiring Diagram

P+ = Discharge + (Output positive)

P- = Discharge - (Output Negative)

5.5mm x 2.1mm female barrel socket = Charging (Input 18-25VDC, 2.9A Max)



## Terminal Explanation

