

Charge Management Module Specifications For 11.1V Li-ion/Li-po Battery Pack			
Model: CMB-S3A3			
Items	Specifications		
Battery pack	11.1V (3S)		Li-ion
Input power	DC: 14 ~ 22V		Power supply
Input current	≥2A		Power supply
Charging Voltage	12.6V±0.1V		4.20V / 1Cell
Charging Method	CC/CV		Constant-current and -Voltage with Limited current
Standard Charging Current	charging current	3A±0.5A	
Current consumption	Charge Management Circuit	≤3mA	Power supply
	Protection Circuit	≤100uA	Battery pack
Standard Charging Time	Hour		Battery Capacity÷Charging Current×1.5
Low voltage alarm	≤9V		3.0V / 1section
Short circuit protection	Detection condition	Exterior short circuit	P+,P-
	Release condition	Charge Release	Input
LED condition	Charge	Red	LED1
	Charge full	All bright	LED1/LED2/LED3/LED4/LED5
	Voltage range	LED2 (9~9.75V) LED3 (9.75~10.5V) LED4 (10.5~11.25V) LED5 (>12V)	
	Low voltage	Flashing	LED1 lamp
	Short circuit protection	Flashing	LED1 lamp
Protection Circuit			
Discharge	Maximal continuous discharging current		10A
Balance	Balance voltage for single cell		4.2V±0.03V
	Balance current for single cell		68mA±5mA
Over-charge	Overcharge detection voltage		4.350 ± 0.025 V
	Overcharge release voltage		4.150 ± 0.050 V
	Overcharge delay time		0.5S—2S
Over-discharge	Overdischarge detection voltage		2.40 ± 0.080 V
	Overdischarge release voltage		3.00 ± 0.100 V
	Overdischarge delay time (CDT=1u)		300—2000ms
Discharge overcurrent	Discharge overcurrent detection voltage		0.15 ± 0.025 V
	Discharge overcurrent delay time (CDT=1u)		30ms—200ms
	Discharge overcurrent protection		25±3A
	Release condition		charge release
Internal resistance	Static Drain-Source On-Resistance		<50mΩ (B+ to P+)
Short-circuiting protection	Load short-circuiting detection voltage		
	Detection condition		Exterior short circuit
	Load short-circuiting detection delay time		100 ~ 600μs
	Release condition		charge release
Operating temperature	-40~+85℃		
Storage temperature	-40~+125℃		
Outline dimension	L80*W80mm		

