BATTERY MANAGEMENT SYSTEM (NON SMART/I-Series)

LFP-30A-4 Cells

Technical Specification

No. of cells in series	4 cells				
Cell Chemistry	LFP				
Functions	Test Parameter	Specification			Unit
		Min	Typical	Max	
Operating Current	Continuous charge current		30		A
	Continuous discharge current		30		A
Charge Protection	Overcharge Voltage Protection	3.62	3.65	3.68	V
	Overcharge Voltage Protection Delay Time	500	1000	1500	mS
	Overcharge Protection Recovery Voltage	3.52	3.55	3.58	V
Discharge Protection	Over Discharge Voltage Protection	2.47	2.5	2.53	V
	Over Discharge Voltage Protection Delay Time	500	1000	1500	mS
	Over Discharge Protection Recovery Voltage	2.67	2.7	2.73	V
		Connect Charger			
Over Current Protection	Charging Overcurrent Protection	32	44	48	A
	Charging Overcurrent Protection Delay Time	5	65	125	mS
	Charging Overcurrent Release	Connect Load			
	Discharging Overcurrent Protection	32	44	48	A
	Discharging Overcurrent Protection Delay Time	575	700	825	mS
	Discharging Overcurrent Release	Release Load			
Short Circuit Protection	Short Circuit Protection Delay Time	30	400	610	µS
	Short Circuit Protection Recovery	Release Load			
Balancing function	Balancing Start Voltage	3.4	3.5	3.6	V
	Balancing Current	35	50	65	mA
IR Resistance	IR of BMS		< 50		mΩ
Temperature Protection	Charging High Temperature Protection	50	55	60	℃
	Charging High Temperature Protection Release	40	45	50	℃
	Discharging High Temperature Protection	66	70	75	℃
	Discharging High Temperature Protection Release	55	60	65	℃
	Charging Low Temperature Protection		<-5		℃
	Charging Low Temperature Protection Release		>5		℃
	Discharging Low Temperature Protection		<-5		℃
	Discharging Low Temperature Protection Release		>5		℃
Dimension	LxBxH		75x48x10		mm

Accessories:

- Cable harness with connector
- Temperature Sensor

Connection Diagram :