

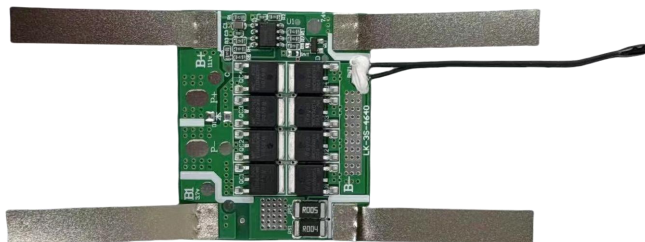


Datasheet

This Data sheet is for Lichtronics **3S6A 10A 15A 20A NMC PCM/BMS**, Part No. LK-3S-4640

I . Application

- (1) Li-ion 3.7V Cylindrical
- (2) Li-po/Prismatic 3.7V



II . Size

PCM: 3S 6A-10A-15A-20A

L46*W40*T2.0mm

III. Specification $T_{opt}=25^{\circ}\text{C}$

No.	Tested Item		Criterion			
1	Voltage	Charging Voltage	DC:12.6V CC/CV			
		Balance Voltage for single cell	NA			
2	Current	Balance Current for single cell	NA			
		Current consumption	$\leq 3\mu\text{A}$			
		Max continuous charging current	6A	10A	15A	20A
		Max continuous discharging current	6A	10A	15A	20A
3	Over Charge Protection	Over charge detection voltage	$4.25\pm 0.05\text{V}$			
		Over charge detection delay time	600ms~2000ms			
		Over charge release voltage	$4.1\pm 0.05\text{V}$			
4	Over Discharge Protection	Over discharge detection voltage	$2.7\pm 0.08\text{V}$			
		Over discharge detection delay time	600ms~2000ms			
		Over discharge release voltage	$3.0\pm 0.10\text{V}$			
5	Over Current Protection	Over current detection voltage	$0.1\pm 0.03\text{V}$			
		Over current detection current	14.3A	25A	37A	45A
		Release condition	Cut load			
		Over current detection delay time	$200\pm 25\text{ms}$			
6	Short Circuit Protection	Detection condition	Exterior short circuit			
		Release condition	Cut short circuit			
		Short circuit detection delay time	100~500us			
7	Temperature Protection	Temperature Protection-Charging	50°C cutoff			
		Temperature Protection-Discharging	70°C cutoff			
8	Interior Resistance	Main loop electrify resistance	$V_C=4.2\text{V}, R_{DS}\leq 60\text{m}\Omega$			
9	Temperature	Operating Temperature	$-45^{\circ}\text{C} \sim +65^{\circ}\text{C}$			
		Storage Temperature	$-45^{\circ}\text{C} \sim +85^{\circ}\text{C}$			

IV. Wire Instruction



B- to Battery Cathode

B1 to 1st Series' Anode

B2 to 2nd Series' Anode

B+ to 3rd Series' Anode



P- to Load/Charger -

P+ to Load/Charger +

Ltd

l.com



