



Datasheet

LK-4S-6235

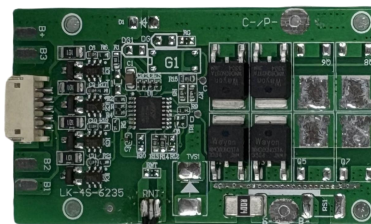
This Data sheet is for Lichtronics 4S6A 10A 15A 20A Li-ion PCM/BMS

I. Application

- (1) NMC 3.7V Cylindrical
- (2) NMC 3.7V Prismatic

II. Size

62*35*1.6mm

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

No.	Tested Item		Criterion			
1	Voltage	Charging Voltage	DC:16.8V CC/CV			
		Balance Voltage for single cell	4.2V			
2	Current	Balance Current for single cell	40-60 mA			
		Current consumption	$\leq 60\mu\text{A}$			
		Max continuous charging current	6A	10A	15A	20A
		Max continuous discharging current	6A	10A	15A	20A
3	Over Charge Protection	Over charge detection voltage	4.225 $\pm$ 0.05V			
		Over charge detection delay time	700-1800ms			
		Over charge release voltage	4.1 $\pm$ 0.08V			
4	Over Discharge Protection	Over discharge detection voltage	2.7 $\pm$ 0.1V			
		Over discharge detection delay time	700-1800ms			
		Over discharge release voltage	3.0 $\pm$ 0.1V			
5	Over Current Protection	Over current detection current (Charging)	7.5 $\pm$ 1A	12.5 $\pm$ 2A	17.5 $\pm$ 3A	22.5 $\pm$ 3A
		Over current detection current (Discharging)	15 $\pm$ 1A	25 $\pm$ 2A	35 $\pm$ 3A	45 $\pm$ 3A
		Release condition	Cut load			
		Over current detection delay time	700-1400ms			
6	Short Circuit Protection	Detection condition(current)	Exterior short circuit			
		Release condition	Cut short circuit			
		Short circuit detection delay time	150-600us			
7	Temperature Protection	Charging Temperature Protection	56 $^{\circ}\text{C}$ cutoff			
		Discharging Temperature Protection	77 $^{\circ}\text{C}$ cutoff			
8	Interior Resistance	Main loop electrify resistance	$V_C=3.6\text{V}, R_{DS}\leq 60\text{m}\Omega$			
9	Temperature	Operating Temperature	-45 $^{\circ}\text{C}$ -- +65 $^{\circ}\text{C}$			
		Storage Temperature	-45 $^{\circ}\text{C}$ -- +85 $^{\circ}\text{C}$			

IV. Wire Instruction

