	Protection Circuit	Module Specifications For 37V Li-ion/Li-Po	Battery Pack
		Model: PCM-L10S10-C19 (LI-10S)	
No.	Test item (Test at normal temperature 25±2℃ and relative humidity≤90%)		Criterion
1	Communication Interface		HDQ or I2C
	Capacity	Designing battery capacity	8500mAh
2		Designing battery capacity	8500mAh
		Max capacity(Battery pack)	320000mAh
		Min capacity (Battery pack)	800mAh
		External capacity Indication	
		Gas gauge algorithm	Impedance Track
_	Voltage	Charging voltage	DC: 37V CC/CV (4.2V/1cell)
3		Balance voltage for single cell	4.2±0.05V
	Current	Balance current for single cell	68±10mA
		Normal operating-mode current: Gas Gauge in NORMAL mode, ILOAD > Sleep Current	160 uA
4		SLEEP operating-mode current: Gas Gauge in SLEEP mode, ILOAD < Sleep Current	80 uA
·		FULL SLEEP operating-mode current: Gas Gauge in FULL SLEEP mode, ILOAD < Sleep Current	25 uA
		Maximal continuous charging current	10A
		Maximal continuous discharging current	10A
	Over charge Protection	Over charge detection voltage	4.25±0.05V
5		Over charge detection delay time	0.5S—2S
		Over charge release voltage	4.05±0.1V
		Over discharge detection voltage	2.75±0.1V
6	Over discharge protection	Over discharge detection delay time	10—30mS
		Over discharge release voltage	3.0±0.1V
	Over current protection	Over current detection current	40±5A
7		Detection delay time	5ms—60ms
		Release condition	Cut load
8	Short protection	Detection condition	Exterior short circuit
		Detection delay time	200-800us
		Release condition	Cut load
9	Resistance	Protection circuitry	≤5 0m Ω
10	Temperature	Operating Temperature Range	-40∼+85°C
		Storage Temperature Range	-40∼+125°C

B+: Battery+

B-: Battery-

SDA: Serial Data interface

SCL: Serial Clock interface

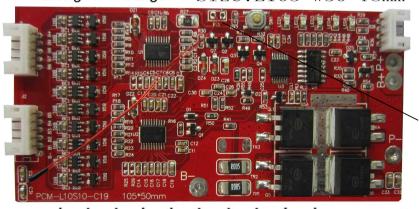
HDQ: Open drain HDQ Serial communication line (slave)

P+: Charge+/discharge+

P-: Charge-/discharge-

P+=B+=Charge+/Discharge+

P-=Charge-/Discharge- Size:L105*W50*T8mm



10K NTC