

Shenzhen Li-ion Battery Bodyguard Technology Co.,LTD

PCM Specifications For 14.8V (4S) Li-ion/Li-Polymer Battery Packs

Model: LWS-4S5A-390V1(4S) Test Item (At 25°C) No. Criterion I2C or SMBus (BQ40Z50) Communication Protocol smbc=SDA/smbd 1 Voltage Charging voltage DC:16.8V CC/CV (4.2V/Cell) Capacity of battery pack 3.2Ah 2 Capacity Maximal capacity of battery pack 3.2Ah Balance voltage for single cell 1 3 Balance Balance current for single cell Current consumption (software) <400uA <150uA Current consumption (sleep) 4 Current Maximal continuous charging current 5A 5A Maximal continuous Discharging current Over charge detection voltage for single cell 4.25V±0.025V Over charge detection delay time **1S** 5 Over charge protection Over charge release voltage for single cell 4.15V±0.05V Over charge release delay time 28 Over discharge detection voltage for single cell 2.7V±0.1V 6 Over discharge protection Over discharge detection delay time 1.5 3.00V±0.05V Over discharge release voltage for single cell Charge over current detection current Over current protection Charge over current detection delay time **2S** 7 (1st Protection) Discharge over current detection current A8 Discharge over current detection delay time **2S** Charge over current detection current 10A Over current protection Charge over current detection delay time 1S 8 (2nd Protection) Discharge over current detection current 10 A 18 Discharge over current detection delay time Discharge over current detection current 20A±0.5A Over current protection 9 5-15mS (3rd Protection) Discharge over current detection delay time Discharge over current release current 200mA P+,P- short circuit Detection condition 200-500us 10 Short protection Detection delay time Release condition Cut load ≤20mΩ Protection circuitry 11 Resistance Charge high temperature protection 55°C±5°C Charge high temperature delay time 4S Charge high temperature protection recovery 45°C±5°C Temperature ptotection 12

Discharge high temperature protection

Discharge high temperature protection delay time

70°C±5°C

4S

		Discharge high temperature protection recovery	60 ℃± 5 ℃
13	Temperature	Operating Temperature Range	-20∼+85℃
		Storage Temperature Range	-20∼+125℃
14	Dimension	50*16*2.5mm	

