Protection Circuit Module Specifications For 7.4V Li-ion/Li-Po Battery Pack Model: PCM-L04S07-403 (LI-2S) IC (BQ20z95) SBS 1.1-COMPLIANT GAS GAUGE No. Test item (Test at normal temperature 25±2°C) Criterion 1 Communication Interface **SMBus** Designing battery capacity (PCM) 10000mAh Max capacity (Battery pack) 15000mAh 2 Capacity Min capacity (Battery pack) 800mAh External capacity Indication LED Gas gauge algorithm Impedance Track DC: 8.4V Voltage Charging voltage CC/CV (4.2v/Cell) Firmware running 600 uA 150 uA Sleep Mode 4 Supply Current Shutdown Mode 1uA 7A Maximal continuous charging current Maximal continuous discharging current 7A Over-charge detection voltage 4.300±0.025V Over-charge Protection 5 Over-charge detection delay time (single cell) 4.100±0.025V Over-charge release voltage Over-charge detection voltage (1st Level Safety) 8.750V±0.1V Over-charge Protection Over-charge detection delay time (1st Level Safety) (Battery pack) 8.000V±0.1V Over-charge release voltage (1st Level Safety) 2.750±0.05V Over-discharge detection voltage Over-discharge protection 7 Over-discharge detection delay time 2s (single cell) Over-discharge release voltage 3.000±0.05V Over-discharge detection voltage (1st Level Safety) 5.000V±0.1V Over-discharge protection 8 Over-discharge detection delay time (1st Level Safety) 2s (Battery pack) 5.300V±0.1V Over-discharge release voltage (1st Level Safety) Charge over-current (1st Level Safety) 7A Charge over-current detection delay time (1st Level Safety) 5s 8A Charge over-current (2nd Tier) Charge over-current detection delay time (2nd Tier) 2s Current protection 9 Discharging over-current (1st Level Safety) 12A (Battery pack) Discharging over-current detection delay time (1st Level Safety) 5s 15A Discharging over-current (2nd Tier) Discharging over-current detection delay time (2nd Tier) 1s Release condition Cut load Charge short-circuiting (2nd Level Safety) 15A 1S Charge short-circuiting detection delay time (2nd Level Safety) 20A Discharge short-circuiting (2nd Level Safety) 10 Short protection Discharge short-circuiting detection delay time (2nd Level Safety) **1S** Detection condition Exterior short circuit Release condition Cut load 11 Resistance Protection circuitry ≤30mΩ 60℃ Charge temperature (1st Level Safety) Charge temperature detection delay time (1st Level Safety) Charge release temperature (1st Level Safety) 45℃ Discharge temperature (1st Level Safety) 65℃ Discharge temperature detection delay time (1st Level Safety) 2s Discharge release temperature (1st Level Safety) 55℃ 12 Temperature protection Charge temperature (2st Level Safety) 65℃ Charge temperature detection delay time (2st Level Safety) 5s Discharge temperature (2st Level Safety) 75℃

		Discharge temperature detection delay time (2st Level Safety)	5s
	Operating free-air temperature range		-40∼+85℃
		Functional temperature	-40∼+100℃
		Storage temperature range	-65∼+150℃
B+: B	-: Battery+		L60*W36*T4mm
B-: Battery-			
SMBD	: SMBus data line		
SMBC: SMBus clock line		B+	
P+: C	P+: Charge+/discharge+	P+ P+ QA \$ QA B B+ B3=NC	
P-: Ch	narge-/discharge-		
NTC:	Temperature detection	SMBD B3 SMBC BB2=NC	
Conne	ect: B-/B3/B+	P- 0	Coll-U3 355 mU Coll-U3 255 mU Coll-U3 255 mU
		P- B B1 B1 F	weig win
		В-	