



PCM for 14.4/14.8V Lilon Battery Pack

SPECIFICATIONS

Protection IC BQ40Z50-R1. Please consult with an MI engineer for programming options

No. Test Item *Test at normal temperature 25±2°C and relative humidity ≤90%.

Criterion

1	Voltage	Charging voltage		DC: 16.8V CC/CV	
2	Current	Current Consumption (Software)		<336µA	
		Current Consumption (Sleep Mode)		<75µA	
		Maximal Continuous Charging Current		6A	
		Maximal Continuous Discharging Current		20A	
3	Over Current Protection	OCC1 Threshold	6000mA	OCD1 Threshold	20000mA
		OCC1 Delay	2s	OCD1 Delay	2s
		OCC2 Threshold	8000mA	OCD2 Threshold	22000mA
		OCC2 Delay	2s	OCD2 Delay	2s
4	Over Charge Protection	COV Threshold Low Temp	17.5V±0.2V	COV Recovery Low Temp	15.6V±0.2V
		COV Threshold Std Temp	17.5V±0.2V	COV Recovery Std Temp	15.6V±0.2V
		COV Threshold High Temp	17.5V±0.2V	COV Recovery High Temp	15.6V±0.2V
		COV Threshold Rec Temp	17.5V±0.2V	COV Recovery Rec Temp	15.6V±0.2V
		COV Delay	2s		
5	Over Discharge Protection	CUV Threshold	12.0V±0.2V	CUVC Threshold	9.6V±0.2V
		CUV Delay	2s	CUVC Delay	2s
		CUV Recovery	13.0V±0.2V	CUVC Recovery	12.0V±0.2V
6	Over Temperature Protection	OTC Threshold	+70°C±3°C	UTC Threshold	0°C±3°C
		OTC Delay	2s	UTC Delay	2s
		OTC Recovery	+55°C±3°C	UTC Recovery	5°C±3°C
		OTD Threshold	+80°C±3°C	UTD Threshold	-20°C±3°C
		OTD Delay	2s	UTD Delay	2s
		OTD Recovery	+55°C±3°C	UTD Recovery	-5°C±3°C
		OTF Threshold	+85°C±3°C		
		OTF Recovery	+65°C±3°C		
7	Secondary Protection	Cell		4.75V±0.1V	
8	Short Protection	Detection Condition		P+, P- Short Circuit	
		Detection Delay Time		200-500µs	
		Release Condition		Cut Load	
9	Resistance	Protection Circuitry		≤10mΩ	
10	Temperature	Operating Temperature Range		-30°C~+85°C	
		Storage Temperature Range		-40°C~+125°C	
11	Dimensions	L 80.0mm x W 70.0mm x T 4.2mm			



