

# SmarTEC TECHNOLOGY

## Protection Circuit Module Specifications For 12.8V(4S) Lithium iron phosphate battery pack

### PCM-Li04S4-011 (4S)

No.	Test Item		Criterion
1	Voltage	Charging voltage	DC:14.4V CC/CV
		Balance voltage for single cell	
2	Current	Balance current for single cell	
		Current consumption for single cell	$\leq 50 \mu A$
		Maximal continuous charging current	4A
		Maximal continuous Discharging current	4A
3	Over charge Protection	Over charge detection voltage	$3.90 \pm 0.05V$
		Over charge detection delay time	0.5S—2.0S
		Over charge release voltage	$3.80 \pm 0.1V$
4	Over discharge protection	Over discharge detection voltage	$2.00 \pm 0.08V$
		Over discharge detection delay time	10mS—200mS
		Over discharge release voltage	$2.50 \pm 0.1V$
		Over current detection current	$10 \pm 2A$
		Detection delay time	5mS—20mS
		Release condition	Cut load, Auto Recover
6	Short protection	Detection condition	Exterior short circuit
		Detection delay time	200-500us
		Release condition	Cut load,Auto Recover
7	Resistance	Protection circuitry	$\leq 60m \Omega$
8	Temperature	Operating Temperature Range	$-40 \sim +85^{\circ}C$
		Storage Temperature Range	$-40 \sim +125^{\circ}C$

P+=Charge+/Discharge+

P- =Charge-/Discharge-

SIZE :L50\*W16\*T3mm

