

# POWER-XTRA

Model: Power-Xtra Li-ion/Li-Po PCM 51.8V (14 Cell) 80 A ver:001 Stock Code: 900.600.501.110		
Test item (Test at normal temperature 25±2°C )		Criterion
Voltage	Charging voltage	DC : 58.8V CC/CV (4.2v/Cell) 14s
	Max capacity (Battery pack)	8700mAh
Supply Current	Normal operating mode current : Fuel gauge in NORMAL mode. ILOAD > Sleep Current	≤30uA
	Hibernate operating mode current : Fuel gauge in HIBERNATE mode. ILOAD < Hibernate Current	16 uA
	Maximal continuous charging current	20A
	Maximal continuous discharging current	80A
	Balance current for single cell	42±10mA
Over-charge Protection (single cell)	Balance voltage for single cell	4.2V±0.05V
	Over charge detection voltage	4.25±0.05V
	Over charge detection delay time	0.5S–2S
	Over charge release voltage	4.05±0.1V
Over discharge protection (single cell)	Over discharge detection voltage	2.8±0.05V
	Over discharge detection delay time	10–200mS
	Over discharge release voltage	3.0±0.1V
Over current protection	Over current detection voltage	0.15v±0.025V
Current protection (Battery pack)	ChargeOver current detection current	/
	Detection delay time	/
	Discharge Over current detection current	150±20A
	Detection delay time	5ms–20ms
	Release condition	Cut load, Auto Recovery
Short protection	Detection condition	Exterior short circuit
	Detection delay time	200-600us
	Release condition	Cut load
Resistance	Main loop electrify resistance	≤50mΩ
Temperature	high temperature discharge protection	70°C
	Discharge temperature detection delay time	2s
	high temperature discharge recover protection	60°C
	Operating Temperature Range	-40~+85°C
	Storage Temperature Range	-40~+125°C
SIZE: L120 *W65 *T16 mm		
NTC: /	Temperature switch : 65 °C (the batteries temperature)	Weak current switch : / 特殊激活方式 : /
<p>Diagram illustrating the connection of a 20-cell battery pack to a Power-Xtra Li-ion/Li-Po PCM module. The connections are as follows:</p> <ul style="list-style-type: none"> <li>B+ (Positive terminal) connects to the positive terminal of the first cell.</li> <li>B- (Negative terminal) connects to the negative terminal of the last cell.</li> <li>Charge+ and Discharge+ terminals connect to the PCM module.</li> <li>Charge- and P- terminals connect to the PCM module.</li> <li>P+ (Positive terminal) connects to the positive terminal of the first cell.</li> <li>Discharge- connects to the negative terminal of the last cell.</li> </ul> <p>The PCM module is shown with its internal components and connections. The physical size of the module is indicated as L120 *W65 *T16mm. A photograph of the physical PCM module is also provided, showing its actual size and mounting hardware.</p>		