

	PRODUCT SPECIFICATION	Rev.	1.0
		Date	2012.04.02
Li402SX (Rechargeable Li-ion Battery Pack 2P4S, 5200mAh)		Page	Sheet 1 of 3

SPECIFICATION OF PRODUCT

Rechargeable Li-ion Battery Pack
Model : Li402SX (14.4V, 5200mAh)

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Li402SX (Rechargeable Li-ion Battery Pack 2P4S, 5200mAh)		Page	Sheet 2 of 3

1. Descriptions

1.1 Description Rechargeable Lithium ion battery pack

1.2 Battery Cell Configuration 2P-4S

2. Electrical specification(@25 °C)

Item	Specification	Remarks
2.1 Capacity	5200mAh	Nominal (by standard charge and discharge)
	4900mAh	Minimum
2.2 Voltage	14.4V	Nominal
2.3 Charging method	CC-CV	Constant-voltage with limited current
2.4 Charging voltage	16.8±0.05V	
2.5 Charging current	2600mAh	Standard
2.6 Charging current cut-off	< 260mA	
2.7 Discharging current	1040mAh	Standard
	5200mAh	Maximum
2.8 Discharge cut-off voltage	12.0V	
2.9 Internal resistance	< 450mΩ	
2.10 Operating temperature	0 to 40°C	Standard charge
	-20 to 55°C	Standard discharge
2.11 Storage temperature	0 ~ 25°C	≤ 1 Year
	0 ~ 45°C	≤ 3 Months
	0 ~ 60°C	≤ 1 Month
2.12 Storage humidity	20 ~ 85 % RH	Not condensed
2.13 Smart Module Communication	SMBus	Type
	V1.1	Revision

3. Safety specification

Item	Remarks	Specification
3.1 Over charge	Prohibition	4.35±0.05V/Cell
	Release	4.20±0.15V/Cell
	Delay time	<2.0 sec
3.2 Over discharge	Prohibition	2.35±0.1V/Cell (for MM1294 IC)
		3.0±0.5V/Cell (for BQ2060 DFC operation)
	Release	3.05±0.15V/Cell
	Delay time	<2.0sec
3.3 Over current	Prohibition	10 ~ 16A
	Release	by charging
3.4 Power dissipation	Operating	< 300uA
	Shut down	< 30uA

4. Physical specification

Item	Remarks	Specification
3.1 Dimension	L x W x H	MAX 214.6 x 59.0 x 23.0
3.2 Terminal (Output)		Power(+),Clock(C),Data(D),Thermistor(T),Power(-)
3.3 Weight		< 400g

5. Certification : UL (No. : E249420)

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