	<b>PRODUCT SPECIFICATION</b>	Rev.	1.0
		Date	2012.04.02
<b>Li18S-5200 (Rechargeable Li-ion Battery Pack 2P2S, 5200mAh)</b>		Page	Sheet 1 of 3

## Specification for Li18S-5200 Battery Pack

Rechargeable Li-ion Battery Pack  
 Model : Li18S-5200 (7.2V, 5200mAh)

### **ENERTECH INTERNATIONAL, INC.**

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## 1. Descriptions

1.1 Description Rechargeable Lithium ion battery pack

1.2 Battery Cell Configuration 2P-2S

## 2. Electrical specification(@25 °C)

Item	Specification	Remarks
2.1 Capacity	5200mAh	Nominal (by standard charge and discharge)
	4900mAh	Minimum
2.2 Voltage	7.2V	Nominal
2.3 Charging method	CC-CV	Constant-voltage with limited current
2.4 Charging voltage	8.4±0.05V	
2.5 Charging current	2600mA	Standard
2.6 Charging current cut-off	< 260mA	
2.7 Discharging current	1040mA	Standard
	2600mA	Maximum
2.8 Discharge cut-off voltage	6.0V	
2.9 Internal resistance	< 300mΩ	
2.10 Operating temperature	0 to 40°C	Standard charge(Dumb charger)
	15 to 40°C	Standard charge(Smart charger)
	-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
	V1.0	Revision

## 3. Safety specification

Item	Remarks	Specification
3.1 Over charge	Prohibition	4.35V±25 mV/Cell
	Release	4.15V±50 mV/Cell
	Delay time	<2.0sec
3.2 Over discharge	Prohibition	2.30V±80 mV/Cell
	Release	3.00V±100 mV/Cell
	Delay time	<2.0sec
3.3 Over current	Prohibition	7.5 ~ 9.5A (Depend on cell voltage)
	Release	by charging
3.4 Power dissipation	Operating	< 300uA
	Shut down	< 30uA

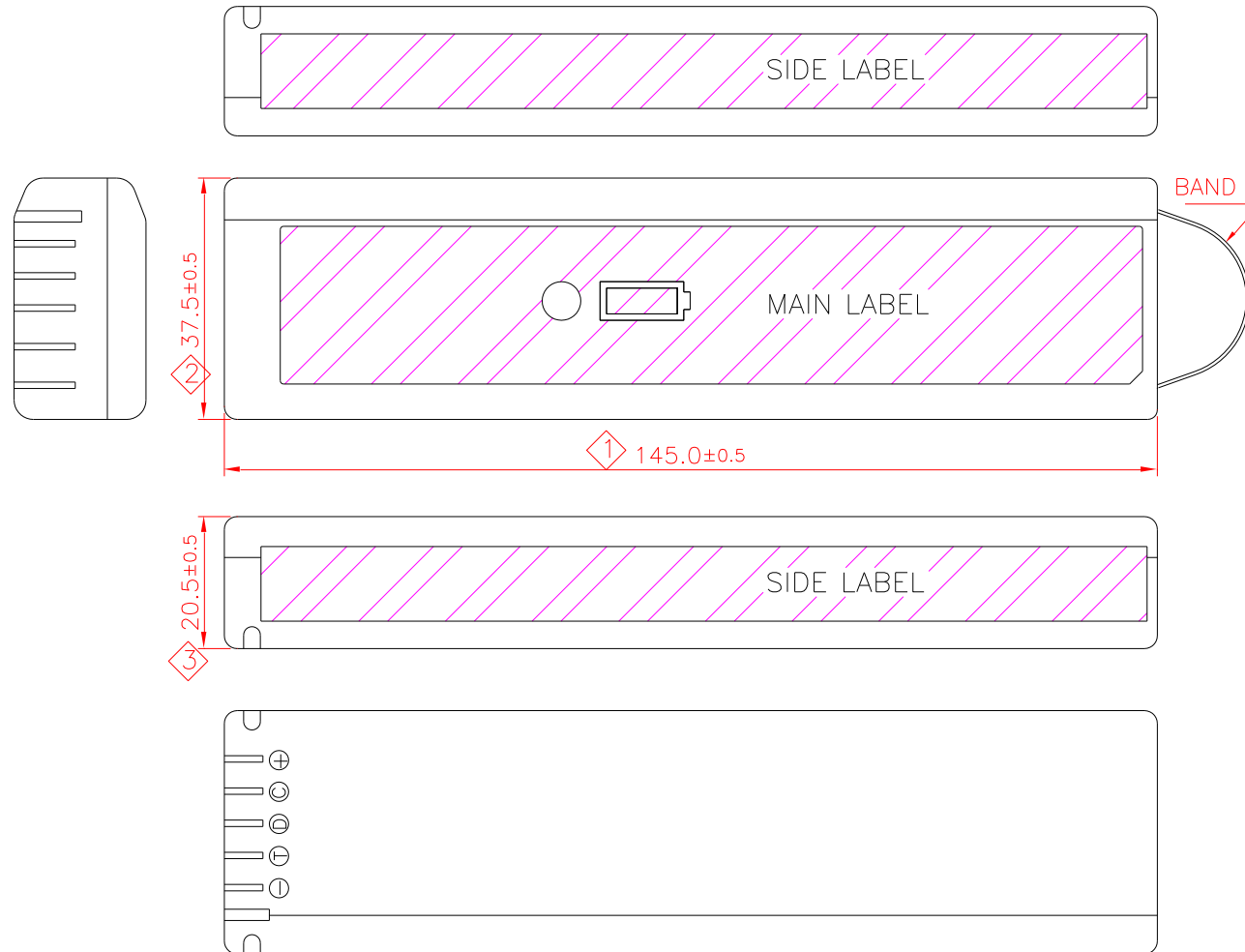
## 4. Physical specification

Item	Remarks	Specification
3.1 Dimension	L x W x H	145.0±0.5 x 37.5±0.5 x 20.5±0.5
3.2 Terminal (Output)		Power(+),Clock(C),Data(D),Thermistor(T),Power(-)
3.3 Weight		< 210g

## 5. Certification : UL (No. : E225922)

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DATE	REV.	CHG.	DESCRIPTION
20120402	0		INITIAL RELEASE



- NOTE
1. CELL : LI-ION 18650
  2. CONFIGURATION : 2S-2P
  3. NOMINAL VOLTAGE : 7.2V
  4. SMART GAUGE
    - 1) BQ2040 : Li18S
    - 2) BQ2060 : Li18SX
  5. OPTIONAL PART : REMOVAL BAND

**enertech international**

BASIC TOLERANCE	SCALE	1 : 1
	UNIT	mm
ZERO PLACE ±0.5	SHEET NO	1 OF 1
ONE PLACE ±0.2	SIZE	A4
TWO PLACE ±0.1	3rd ANGLE	
ANGLE ± 1°		

MODEL NAME LI18 SERIES

DRAWING NAME SPEC, LI18

DRAWING NUMBER REF.

SIGN.	DRAFTER	CHECKER	APPROVER
	D.C. SONG	C.I. KIM	S.H. NAM

CRITICAL CHARACTERISTICS	SIGNIFICANT CHARACTERISTICS
TOTAL ON DRAWING 0	TOTAL ON DRAWING 3