

	<b>PRODUCT SPECIFICATION</b>	Rev.	1.0
		Date	2012.04.02
<b>SPB90210260 12S1P Module (Rechargeable Li-ion Polymer Battery Pack, 40Ah)</b>		Page	Sheet 1 of 3

## Specification for SPB90210260 12S1P Module

**Rechargeable Li-ion Polymer Battery Pack**  
**Model : SPB90210260 Module 12S1P, 44.4V, 40Ah**

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

710-3, Yongtan-Dong , Chung-Ju , Chung-buk , Korea  
 TEL: 82-43-850-1840 / 82-2-3457-8650    FAX: 82-2-564-3566

[www.enertechint.com](http://www.enertechint.com)

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## 1. Descriptions

1.1 Description Rechargeable Lithium ion Polymer Battery Pack

1.2 Battery Cell Configuration 12S-1P

## 2. Electrical specification

Item	Specification	Remarks
2.1 Capacity	40Ah	Nominal (by standard charge and discharge)
2.2 Voltage	44.4V	Nominal
2.3 Charging method	CC-CV	Constant-voltage with limited current
2.4 Charging voltage	50.4±0.05V	
2.5 Charging current	20Ah	Standard
	40Ah	Maximum
2.6 Charging current cut-off	< 2.0A	
2.7 Discharging current	20Ah	Standard
	160Ah	Continuous
2.8 Discharge cut-off voltage	30V	
2.9 Internal resistance	< 3mΩ	
2.10 Operating temperature	0 to 45°C	Standard charge
	-20 to 55°C	Standard discharge
2.11 Storage temperature	-10 ~ 45°C	Range
	23°C±2°C	Recommend
2.12 Storage humidity	45 ~ 85 % RH	Not condensed

## 3. Safety specification

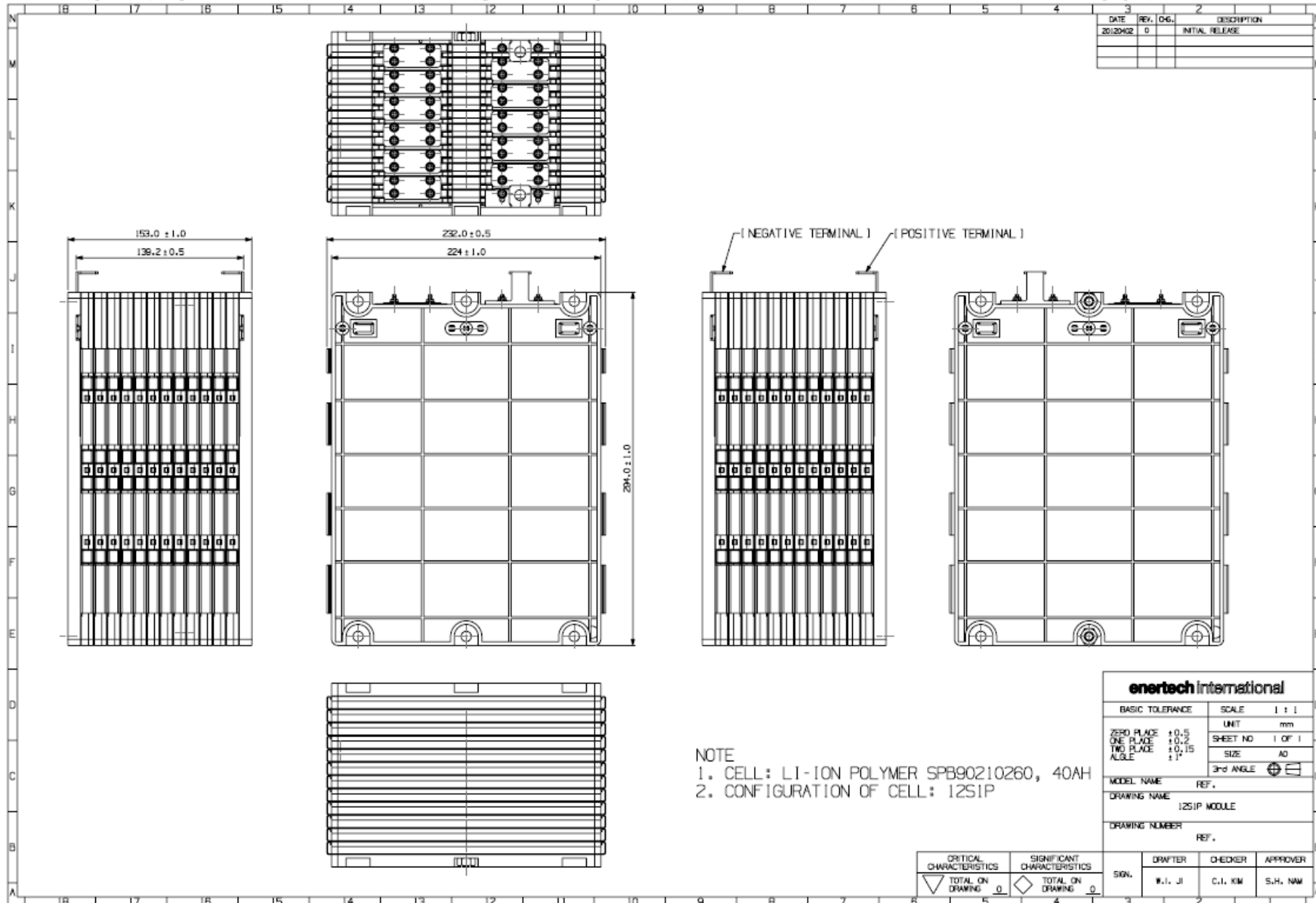
Item	Remarks	Specification
3.1 Over charge	Prohibition	TBD
	Release	TBD
	Delay time	TBD
3.2 Over discharge	Prohibition	TBD
	Release	TBD
	Delay time	TBD
3.3 Over current	Prohibition	TBD
	Release	TBD
	Delay time	TBD
3.4 Power dissipation	Operating	TBD
	Shut down	TBD

## 4. Physical specification

Item	Remarks	Specification
3.1 Dimension	L x W x H	294±1.0 x 232±1.0 x 153.0±0.2
3.2 Terminal (Output)		Cell Positive, Cell Negative
3.3 Weight		< 20Kg

## 5. Certification : UN DOT(Cell)

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DATE	REV.	CHG.	DESCRIPTION
20120402	0		INITIAL RELEASE

enertech international			
BASIC TOLERANCE	SCALE	1 : 1	
ZERO PLACE ±0.5	UNIT	mm	
ONE PLACE ±0.2	SHEET NO	1 OF 1	
TWO PLACE ±0.15	SIZE	A0	
ANGLE ±1°	3rd ANGLE		
MODEL NAME	REF.		
DRAWING NAME		12S1P MODULE	
DRAWING NUMBER	REF.		
		DRAWER	CHECKER
		W.J. JI	C.I. KM
			APPROVER
			S.H. NAM

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