

PROPRIETARY INFORMATION:

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REVISION HISTORY

REV	DESCRIPTION	SALES	RFS	DATE	APPROVED
A	Initial Release	SV	26586	12/1/216	DR
B	Update wire polarity : (PIN5) from black negative (-) to green negative(-)	RC	26676	3/6/2017	DR
C	Remove PVC Shrinkwrap	SV	26868	8/21/2017	DR
D	Add IEC62133 approval; update label adding IEC62133 file designation	SV	26966	11/29/2017	DR
E	Remove PVC Shrinkwrap	SV	27066	4/16/2018	DR
F	Update connector drawing to show locking latch	SV	27183	4/19/2018	DR
G	Update connector P/N from S1SS+05-28C-GF-03.00-L to ASD-203184-02; wire harness length from 40±3mm to 31mm±3mm, battery dimensions from 78mm*31mm*9.0mm(max) to 78mm*31mm*8.7mm(max)	SV	27191	10/15/2018	DR
H	Update overcharge detection from 4.28V to 4.25V; Over discharge detection from 3.00V to 2.50V overcurrent detection from 4.0A to 6.0A	SV	27221	11/26/2018	DR

See Page 2 for important battery warranty and usage information.

RELEASED
By N.Frost at 2:28 pm, Nov 26, 2018

Foot Note:

Globtek Inc. will not be liable for the safety and performance of these power supplies if unauthorized access and repair occurs. End user should consult applicable UL, CSA or EN standards for proper installation instruction.

Limitation of Use:

Globtek product are not authorized for use as mission critical components in life support hazardous environment, nuclear or aircraft applications without prior written approval from the CEO of Globtek Inc.
Contents of this document are subject to change without prior notice

 **GlobTek, Inc.**
www.globtek.com

186 Veterans Drive, Northvale, NJ 07467
201-784-1000 Fax 201-784-0111

Tel.

Drawing Title: Li-Ion Polymer Battery Pack (NMC)

3.7VOLTS @ 3000mAh

MODEL NO: 903178

PART NO: BL3000F9031781S1PCRV

Rev. H

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By customer signing or accepting this document, they agree to acknowledge and accept the **Guidelines and cautions, Safety Notes, and Safety Precautions published on GlobTek's website** http://en.globtek.com/safety-cautions.php#.UUD-NRzU_I8

GlobTek offers a 5-year warranty on workmanship and electrical components assembly on all new battery pack products excluding the battery cells themselves which are covered by the Manufacturer's original warranty at their published warranty period. Please refer to the manufacturer's manufacturer's warranty policy for cells. For GlobTek brand cells, GlobTek provides a 12-month warranty for Li-Ion batteries. The warranty period is based upon the expectation that the battery will deliver 80% of its initial capacity after 300 cycles at low to moderate power loads. High power loads may cause a battery to reach 80% of initial capacity in less than the 12-month warranty period. Li-Ion batteries will continue to operate below the 80% capacity threshold; however, the capacity (run time) delivered between charges will continue to decrease.

The purchaser of this product (Customer) agrees that it is their sole responsibility to determine suitability of the product described for their application and to take precautions for protection against any hazards attendant to the handling and use of the product. Products sold are not returnable. GlobTek, Inc. will produce or provide its products to our published specifications. The purchaser of this product (Customer) shall be solely responsible for determining the products' fitness for use in their applications.

Customer Approval of Specification:

Please approve, sign and send back to GlobTek so we can complete order processing.

A delay in receipt of this form will delay delivery schedule.

Company Name:

Customer P/N:

Quote Number:

Date:

Authorized Representative Name:

Authorized Representative Signature:

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**1.GENERAL SPECIFICATION:
BATTERY WITH SAFETY CIRCUIT**

CELL:	Globtek 903178
PCM:	Globtek Standard
NTC:	10K
ID:	N/A
CONFIGURATION:	1S1P
WEIGHT:	Aprox 63 grams (Reference)

2.ELECTRICAL SPECIFICATION:

RATED CAPACITY:	3000mAh @0.2C discharge
NOMINAL VOLTAGE:	3.7
WATT-HOUR RATING:	11.1WH
CHARGING METHOD:	CONSTANT CURRENT + CONSTANT VOLTAGE
MAX. CHARGE VOLTAGE [V]:	4.2 (±3mV)
CHARGE CURRENT:	0.5C (Standard), 0.9C (Maximum)
REC. CHARGE CUT OFF:	By current to 0.01C or timer 5.0 hours (Standard); 2.5 hours (Rapid)
MAX. CONTINUOUS DISCHARGE CURRENT:	1C
REC. DISCHARGE CUT OFF:	3.0V
INTERNAL IMPEDANCE:	≤30 mΩ
EXP. CYCLE LIFE:	>500 cycles,>80% of initial cap. of cells(CC charge 1C to 4.2V;CV to 0.01C 5 min. delay; CC discharge 1C to 3V)

CELL PROTECTION:

OVER CHARGE DETECTION:	4.25 ±0.025V (Max. 1400msec. delay, resume 4.08 ±0.025V)
OVER DISCHARGE DETECTION:	2.50 ±0.5V (Max. 173msec. delay)
OVER CURRENT DETECTION:	6.0 A Minimum(11msec. Max delay) remove load to recover

3. AMBIENT CONDITIONS

TEMPERATURE RANGE:	
CHARGE:	0 to +55°C
DISCHARGE:	-20 to +85°C
STORAGE TEMPERATURE:	-5 to +35°C >80%

HUMIDITY:	≤ 75%RH Bare Cell
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4.ENVIRONMENTAL AND SAFETY

PLEASE FOLLOW GlobTek, Inc. HANDLING AND SAFETY PRECAUTIONS FOR Lilon & LiPolymer.

5. CELL REGULATORY APPROVALS:

UL:	Approved to UL1642
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6. BATTERY PACK APPROVALS:

RoHS:	COMPLIES WITH EU 2002/95/EC AND CHINA SJ/T 11363-2006
CE Mark:	COMPLIES WITH 2004/108/EC ELECTROMAGNETIC COMPATIBILITY INCLUDING BUT NOT LIMITED TO EN61000-6-1:2007, EN61000-6-3:2007
TRANSPORTATION:	Approved to UN38.3
UL:	Approved to IEC62133

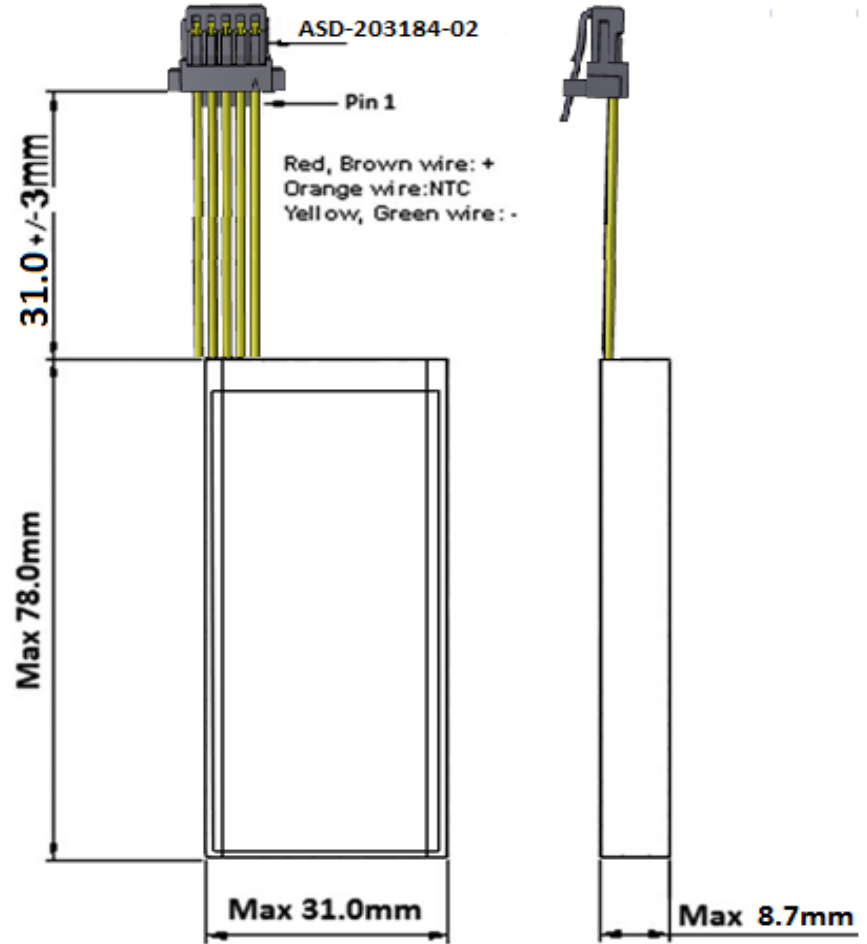


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6. MECHANICAL:

DIMENSIONS:	78mm x 31mm x 8.7mm(Max.)
SHRINK WRAP:	N/A
WIRE TYPE:	N/A
WIRE LENGTH:	31mm +/- 3.0
WIRE POLARITY: (Pin 1)	BROWN POSITIVE (+)
WIRE POLARITY: (Pin 2)	RED POSITIVE (+)
WIRE POLARITY:(Pin 3)	ORANGE NTC
WIRE POLARITY: (Pin 4)	YELLOW NEGATIVE (-)
WIRE POLARITY: (Pin 5)	GREEN NEGATIVE (-)
ADDITIONAL REQUIREMENTS:	N/A



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7. OUTPUT CONNECTOR:



EQUIVALENT	Y / N	
PLUG TYPE	N	Samtec ASD-203184-02

**SAMTEC P/N ASD-203184-02
5 PIN FEMALE CONNECTOR WITH
LOCKING LATCH**



Pin Number	Wire Color	Function	Notes
1	BROWN	+BATT	Two pins share+
2	RED	+BATT	Two pins share+
3	ORANGE	10K NTC	10K thermistor; return path is -BATT
4	YELLOW	-BATT	Two pins share-
5	GREEN	-BATT	Two pins share-


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8. LABEL:

MATERIAL:	TBD
BACKGROUND COLOR:	WHITE
TEXT COLOR:	BLACK
LABEL WIDTH: (mm)	TBD
LABEL HEIGHT: (mm)	TBD
ADDITIONAL REQUIREMENTS:	N/A



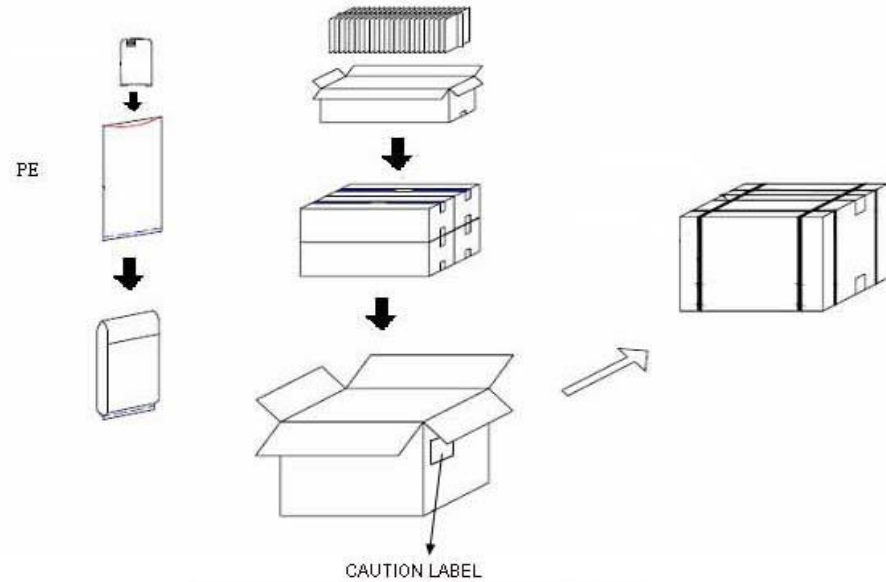
 GlobTek, Inc. www.globtek.com	Drawing Title: Li-Ion Polymer Battery Pack (NMC)	
	3.7VOLTS @ 3000mAh	
186 Veterans Drive, Northvale, NJ 07467 201-784-1000 Fax 201-784-0111	Tel.	MODEL NO: 903178
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9. PACKAGING:

PE BAG SIZE	TBD
CARTON SIZE:	TBD
QUANTITY PER CARTON:	TBD
G.W.	TBD



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