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**REVISION HISTORY**

REV	DESCRIPTION	SALES	RFS	DATE	APPROVED
A	Initial Release	SV	26586	12/1/2016	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
I	Update Max. charge Voltage to 4.1V Max (+/-3mV) 4.1V recommended for safety purposes	DR	27522	5/22/2020	DR
I1	Format update	DR	27532	6/30/2020	DR
J	Add to Plug type: Mates with Samtec T1M-02-F-SH-L or T1M-02-F-SV-L	DR	27557	7/13/2020	DR
J1	UPDATE THERMISTOR WITH DETAILED VALUES, 10k ±10%, B=3435	DR	RFI-137	8/27/2020	DR
J2	UPDATE CELL REGULATORY APPROVALS TO SHOW "DESIGNED TO MEET" UL1642	DR		8/27/2020	DR
J3	CHARGE CURRENT change to 0.6A(Standard);1.5A(Maximum)	DR	27626	4/13/2021	DR
	CHANGE INTERNAL IMPEDANCE change to ≤100mΩ				
	CHANGE OVER CURRENT DETECTION change to 4.8A—8.0A (5.0-15.0msec.delay) remove load to recover				
J4	UPDATE CAUTION LABEL FOR OUTER CARTON	MK	27650	7/8/2021	DR
J5	Update the case dimensions to: Length: 79.0mm Max, Width: 31.4mm MAX, Height: 8.8mm MAX	MK	27693	1/8/2022	DR

See Page 2 for important battery warranty and usage information.


**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. <a href="http://www.globtek.com">www.globtek.com</a>	Drawing Title: Li-Ion Polymer Battery Pack (NMC)	
	3.7VOLTS @ 3000mAh	
186 Veterans Drive, Northvale, NJ 07467 Tel. 201-784-1000 Fax 201-784-0111	MODEL NO: 903178	
	PART NO: BL3000F9031781S1PCRV	Rev.J5

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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](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 GlobTek battery pack products (Customer) agrees that they are a "Sophisticated user" who understands battery technology and 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. GlobTek products are only designed for professional use and integration by companies into their products and may not be used by consumers directly. GlobTek provides batteries and battery packs as a component of an end system.

The acceptance of GlobTek specifications, the information on this page and use of the product(s) described in this or other GlobTek documents indicate that the product was qualified for use (tested and/or sample waiver signed), and the acceptance and binding of the customer to GlobTek terms and conditions, which supersede all other agreements, terms and conditions <http://en.globtek.com/terms-and-conditions/>

**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:

 GlobTek, Inc.

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

186 Veterans Drive, Northvale, NJ 07467

Tel. 201-784-1000 Fax 201-784-0111

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

3.7 VOLTS @3000Mah

MODEL NO: 903178

PART NO: BL3000F9031781S1PCRVR

Rev.J5

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

CELL:	Globtek 903178
PCM:	Globtek Standard
NTC:	10k ±10%, B=3435
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]:	4.1V Max (+/-3mV) 4.1V recommended for safety purposes
CHARGE CURRENT:	0.6A(Standard);1.5A(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:	≤100 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:	4.8A—8.0A (5.0-15.0msec.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 LiIon & LiPolymer.

**5. CELL REGULATORY APPROVALS:**

UL:	Designed to meet 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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186 Veterans Drive, Northvale, NJ 07467  
 Tel. 201-784-1000 Fax 201-784-0111

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

3.7VOLTS @ 3000mAh

MODEL NO: 903178

PART NO: BL3000F9031781S1PCR

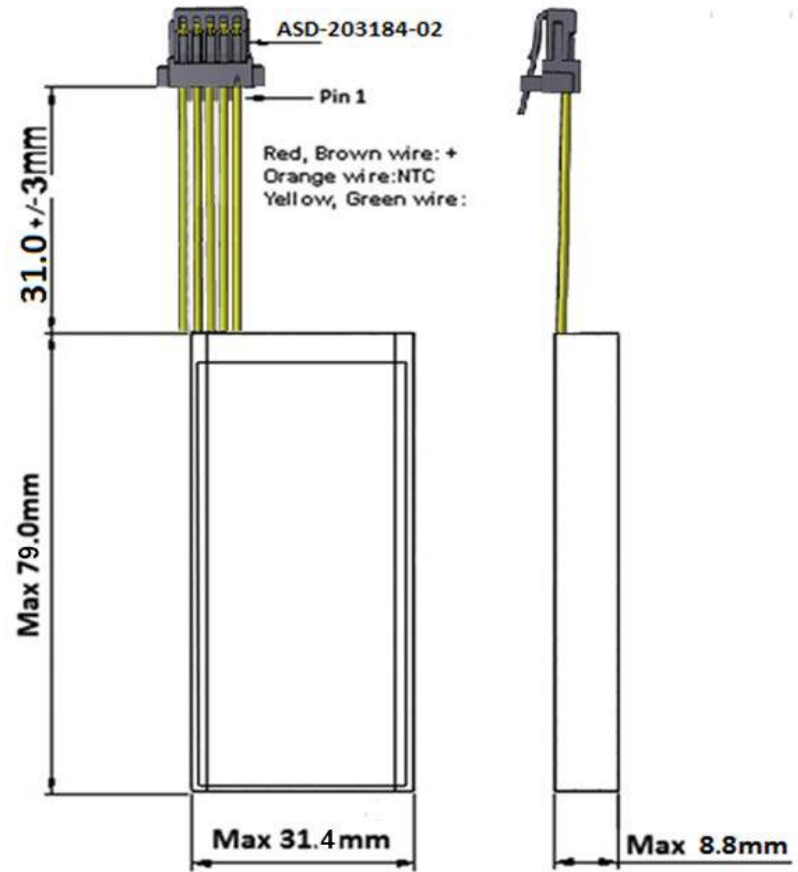
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**7. MECHANICAL:**

DIMENSIONS:	79.0mm MAX, 31.4mm MAX, 8.8mm 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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**8. OUTPUT CONNECTOR:**



EQUIVALENT	Y / N	
PLUG TYPE	N	Samtec ASD-203184-02
		Mates with Samtec T1M-02-F-SH-L or T1M-02-F-SV-L

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



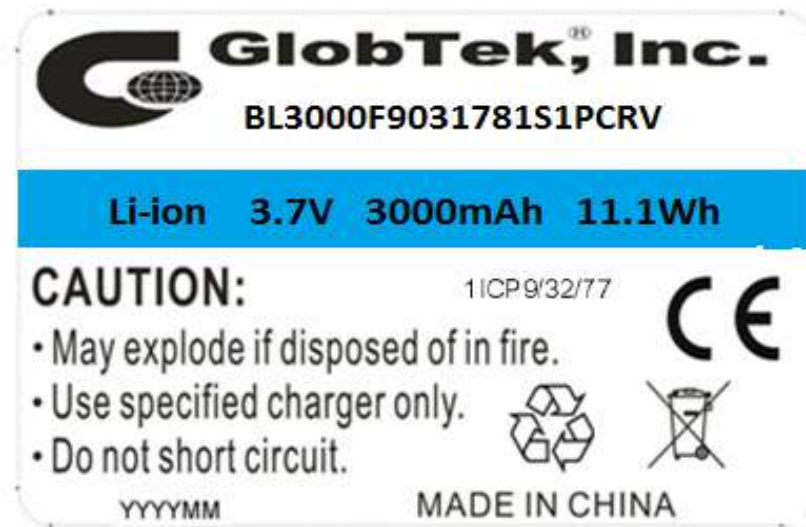
Pin Number	Wire Color	Function	Notes
1	BROWN	+BATT	Two pins share+
2	RED	+BATT	Two pins share+
3	ORANGE	10K NTC	10K thermistor; return path is -BATT
4	YELLOW	-BATT	Two pins share-
5	GREEN	-BATT	Two pins share-

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**9. LABEL:**

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



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**10. PACKAGING:**

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

**CAUTION LABEL**



80G coated paper + coating, single-sided adhesive, color printing (standard red)

