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REVISION HISTORY

REV	DESCRIPTION	SALES	RFS	DATE	APPROVED
A	Initial Release	SV	27482	12/27/2019	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

RELEASED
By pudxc at 11:28 am, Jan 02, 2020

 GlobTek®, Inc.
www.globtek.com

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

Drawing Title: Li-Ion Battery with Fuel Gauge

11.1 Volts@10.5Ah

Model No.: INR18650-35E (3ICR19/65-3)

Part No.: BL10200C186503S3PXQN

Rev. A

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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.

The acceptance of this specification and use of the product described in this document indicates 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/>).

Lithium Ion batteries are inherently dangerous. Continuous usage or charging without allowing the battery to discharge is a hazard.

FIRE HAZARD: This like all Li-Ion battery packs must be regularly discharged and charged. it is not recommended to be kept on permanent full charge and in a full state of charge.

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:

CELL:	Samsung INR18650-35E
PCM:	
NTC:	N/A
FUEL GAUGE:	BQ40Z50
CONFIGURATION:	3S3P
WEIGHT:	452 grams

2.ELECTRICAL SPECIFICATION FOR PACK:

RATED CAPACITY:	10.2Ah(Nominal); 10Ah (Minimum)
NOMINAL VOLTAGE:	11.1V
WATT-HOUR RATING:	113.2Wh
CHARGING METHOD:	Constant Current and Constant Voltage
MAXIMUM CHARGE VOLTAGE [V]:	12.6 (±50mV) (Globtek recommends 4.1V/cell)
CHARGE CURRENT:	0.2C
RECOMMENDED CHARGE CUT OFF:	≤200mA
MAXIMUM CONTINUOUS DISCHARGE CURRENT:	5A
RECOMMENDED DISCHARGE CUT OFF:	7.95V
INTERNAL IMPEDANCE:	≤120mΩ
EXPECTED CYCLE LIFE:	>300 CYCLES > 80% of initial capacity of cells (charge .2C to 12.6V;discharge .2C to 7.95V)
BATTERY PROTECTION:	
OVER CHARGE VOLTAGE DETECTION:	12.81V (4.27±0.1V/cell)
OVER DISCHARGE VOLTAGE DETECTION:	7.50V (2.5±0.1V/cell)
OVER CURRENT DETECTION:	6.0-8.0A

3. AMBIENT CONDITIONS

TEMPERATURE RANGE:	
CHARGE:	0 to +45°C
DISCHARGE:	-10 to +60°C
CHARGE RETENTION/STORAGE [%]:	≤ 1 year (Stored at 60% -70% SOC) at -20 to +25°C >80% of initial capacity. < 3 months at -20 to +40°C >80%
HUMIDITY:	60 ±15%RH

4.ENVIORMENTAL AND SAFETY

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

5. CELL REGULATORY APPROVALS:

UL:	UL1642 Approved
5 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:	PACK DESIGNED TO MEET un38.3
UL:	Design to meet UL2054, IEC62133

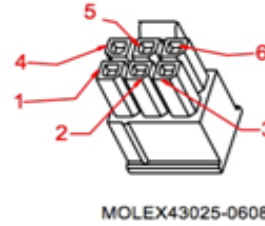


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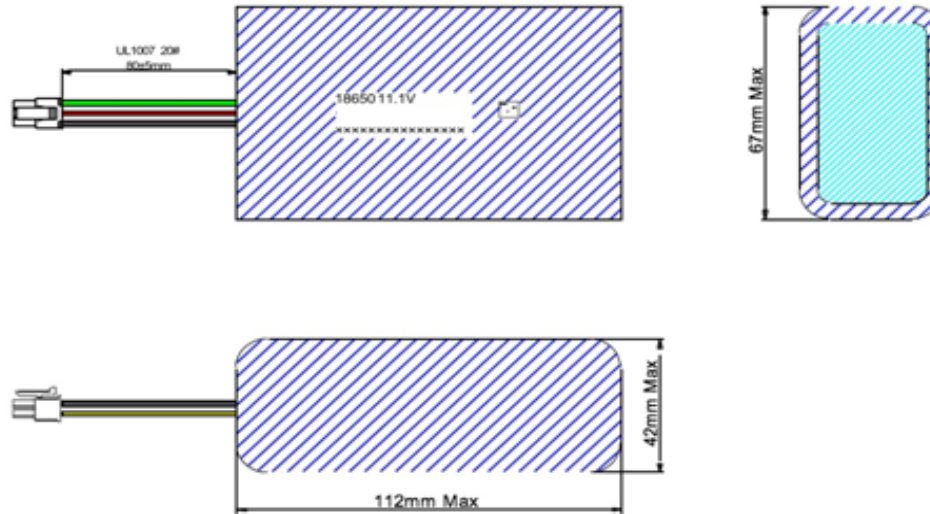
6. MECHANICAL:

DIMENSIONS:	42.0mm*67mm *112mm
SHRINK WRAP:	PVC
WIRE TYPE:	UL1007 20AWG
WIRE LENGTH:	150mm +/- 5.0
WIRE POLARITY (Pin 1):	VBat+ (Red)
WIRE POLARITY (Pin 2):	VBat - (Black)
WIRE POLARITY (Pin 3):	SCL (Yellow)
WIRE POLARITY (Pin 4):	SDA (Green)
WIRE POLARITY (Pin 5):	VBat + (Red)
WIRE POLARITY (Pin 6):	VBat - (Black)



Pin assignment:

- Pin 1: VBat + (Red)
- Pin 2: VBat - (Black)
- Pin 3: SCL (Yellow)
- Pin 4: SDA (Green)
- Pin 5: VBat + (Red)
- Pin 6: VBat - (Black)



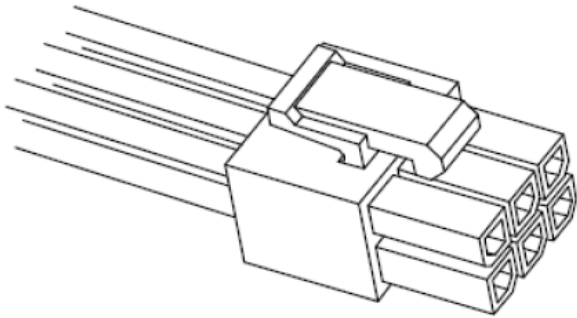
[ADDITIONAL OUTPUT PLUG OPTIONS ARE AVAILABLE BY CLICKING THIS LINK.](#)
[STANDARD PLUGS AND CONNECTORS CAN BE SEEN ONLINE BY CLICKING THIS LINK](#)

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7. OUTPUT CONNECTOR:

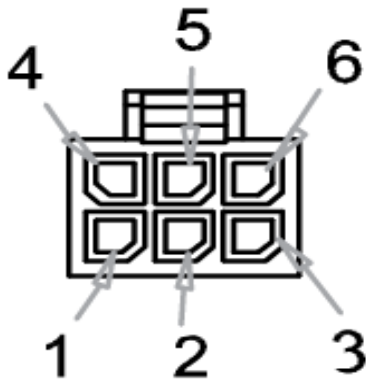
ACTUAL CONNECTOR'S, OVERMOLDS, MAY VARY SLIGHTLY FROM THE PICTURE BELOW



	EQUIVALENT	Y / N
PLUG TYPE		Y
TERMINALS		Molex 6 pin P/N 43025-0608
PLUG DIMENSIONS		Molex P/N: 43030-0001
PIN ASSIGNMENT AND WIRE COLORS		TBD
		Pin 1: VBat + (RED)
		Pin 2: VBat -(Black)
		Pin 3: SCL(Yellow)
		Pin 4: SDA(Green)
		Pin 5: VBat + (Red)
		Pin 6: Vbat -(Black)

[ADDITIONAL OUTPUT PLUG OPTIONS ARE AVAILABLE BY CLICKING THIS LINK.](#)
[STANDARD PLUGS AND CONNECTORS CAN BE SEEN ONLINE BY CLICKING THIS LINK](#)

FRONT VIEW



Pin assignment:


- Pin 1: VBat + (Red)
- Pin 2: VBat - (Black)
- Pin 3: SCL(Yellow)
- Pin 4: SDA (Green)
- Pin 5: VBat + (Red)
- Pin 6: VBat - (Black)

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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






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BL10200C186503S3PXQN

Li-Ion 11.1V 10.2Ah 113.2Wh


CAUTION:
 1. MAY EXPLODE IF DISPOSED OF IN FIRE.
 2. USE SPECIFIED CHARGER ONLY.
 3. DO NOT SHORT CIRCUIT.


Pin 1: VBat+ (Red)
 Pin 2: VBat- (Black)
 Pin 3: SCL (Yellow)
 Pin 4: SDA (Green)
 Pin 5: VBat+ (Blue)
 Pin 6: VBat- (Black)

MADE IN CHINA

XXXXXX

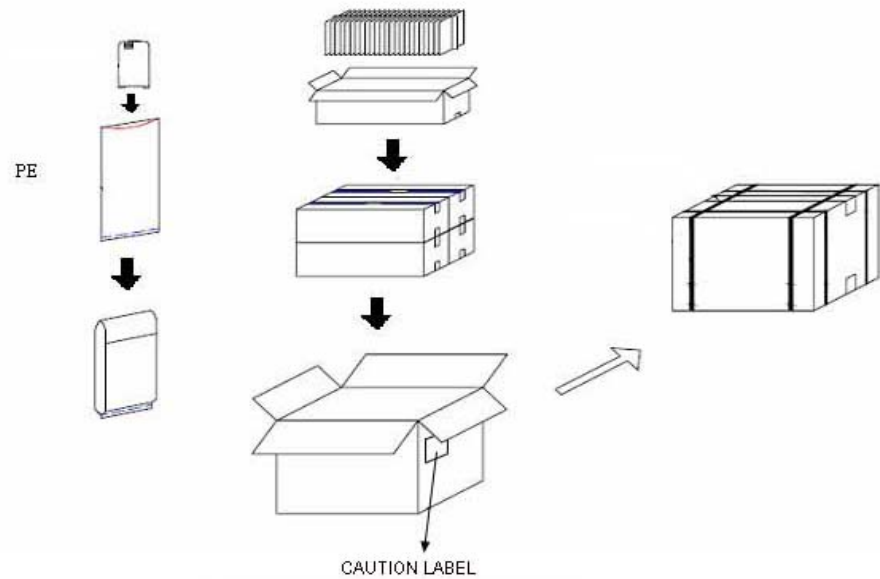
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9. PACKAGING:

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



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