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REVISION HISTORY

REV	DESCRIPTION	SALES	RFS	DATE	APPROVED
A	Initial Release	SV	27382	6/28/2019	DR
B	Update NTC from 10K to 100K	SV	27392	7/9/2018	DR
C	Update NTC P/N from NTCG164KF104FT1 to NTCG163JF103FT1, nominal voltage from 3.7V to 3.6V, Watt-hour rating from 17.76Wh to 17.28Wh, charge temperature from 0 to 50C to 0 to 45C	SV	27398	7/23/2019	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 1:41 pm, Jul 24, 2019

 GlobTek, Inc. www.globtek.com	Drawing Title: Li-Ion Cylindrical Battery	
	3.7 Volts @ 4800mAh	
186 Veterans Drive, Northvale, NJ 07467	Tel.	Model No. 21700 (1ICR21/71)
201-784-1000 Fax 201-784-0111		Part No.: BL4800C2170001S1PCHS
		Rev. C

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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:

BATTERY WITH SAFETY CIRCUIT

CELL:	21700
PCM:	IC:DW01AZ
NTC:	10K±1% (P/N NTCG163JF103FT1) Qty 2
ID:	N/A

CONFIGURATION:	1S1P
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2. ELECTRICAL SPECIFICATION:

RATED CAPACITY:	4800mAh(Typ)
NOMINAL VOLTAGE:	3.6V
WATT-HOUR RATING:	17.28Wh
CHARGING METHOD:	Constant Current/Constant Voltage
MAXIMUM CHARGE VOLTAGE [V]:	4.2V/cell (Recommended 4.1V±1%/cell)
CHARGE CURRENT:	0.3C (typical); 1.0C (maximum)
RECOMMENDED CHARGE CUT OFF:	By current 0.02C or timer approx. 6.0hours
MAXIMUM CONTINUOUS DISCHARGE CURRENT:	1C
RECOMMENDED DISCHARGE CUT OFF:	3.0V/cell
INTERNAL IMPEDANCE:	≤35mΩ
EXPECTED CYCLE LIFE:	>500 cycles > 80% of initial capacity (charge CC 0.3C to 4.2V; discharge 1.0C to 3.0V)
CELL PROTECTION:	
OVER CHARGE DETECTION VOLTAGE:	4.30 ±0.05Volts (typical delay 70msec., resume 4.1 ±0.05V)
OVER DISCHARGE DETECTION VOLTAGE:	2.40 ±0.1Volts (typical delay 35msec., resume 3.0±0.1V)
OVER CURRENT DETECTION CURRENT:	2.5A - 3.5A (typical delay 6msec., release condition cut load)

3. AMBIENT CONDITIONS

TEMPERATURE RANGE:	
CHARGE:	0°C to +45°C
DISCHARGE:	-20°C to +60°C
CHARGE RETENTION/STORAGE [%]:	≤1 year at -20°C to +25°C (≥90% capacity) ≤3 months -20°C to 45°C (≥90% capacity) ≤1 months -20°C to 55°C (≥90% capacity)
HUMIDITY:	60±25%RH

4. ENVIRONMENTAL AND SAFETY

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

5. CELL REGULATORY APPROVALS:

UL:	UL1642 approved
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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:	Designed to meet UN38.3
Safety:	Designed to meet UL 2054, IEC61960:2003, IEC 62133,
UL:	Design to meet UL2054, IEC62133



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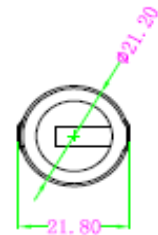
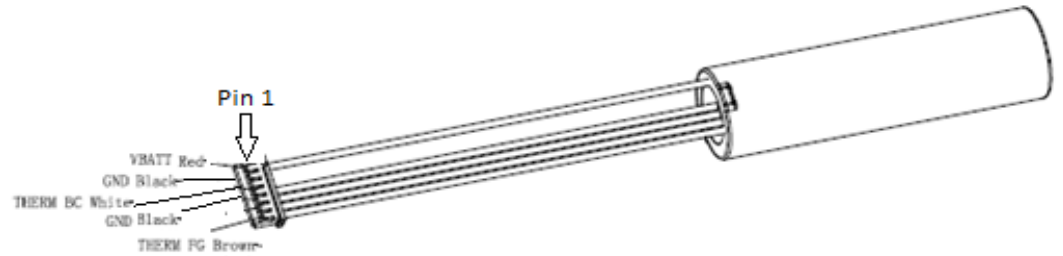
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8. MECHANICAL:

DIMENSIONS:	21.80mm * 72.50mm (Max)
SHRINK WRAP:	PVC
WIRE TYPE:	UL1007 AWG #22
WIRE LENGTH:	90mm ± 5.0 mm
Wire Polarity: (Pin 1)	VBatt Red (+)
Wire Polarity: (Pin 2)	GND Black (-)
Wire Polarity: (Pin 3)	Therm BC White (10K)
Wire Polarity: (Pin 4)	GND Black (-)
Wire Polarity: (Pin 5)	N/C
Wire Polarity: (Pin 6)	N/C
Wire Polarity: (Pin 7)	Therm FG Brown (10K)



[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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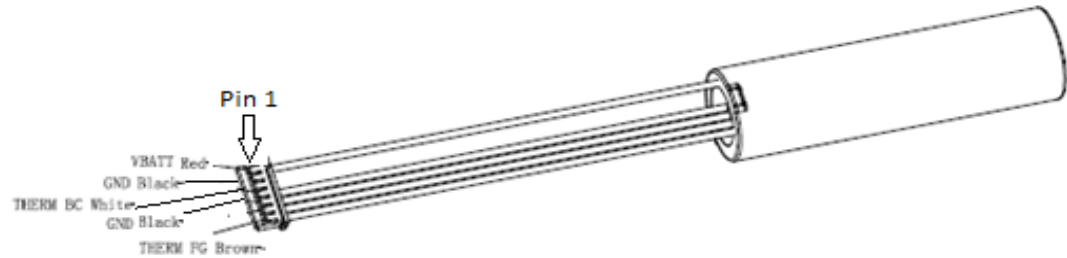
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7.CONNECTOR:

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

	EQUIVALENT	Y / N
Plug Type	Y	HIROSE DF3-7S-2C
Terminal	Y	HIROSE DF3-22SCF



PIN OUT

Wire Polarity: (Pin 1)	VBatt Red (+)
Wire Polarity: (Pin 2)	GND Black (-)
Wire Polarity: (Pin 3)	Therm BC White (10K)
Wire Polarity: (Pin 4)	GND Black (-)
Wire Polarity: (Pin 5)	N/C
Wire Polarity: (Pin 6)	N/C
Wire Polarity: (Pin 7)	Therm FG Brown (10K)

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



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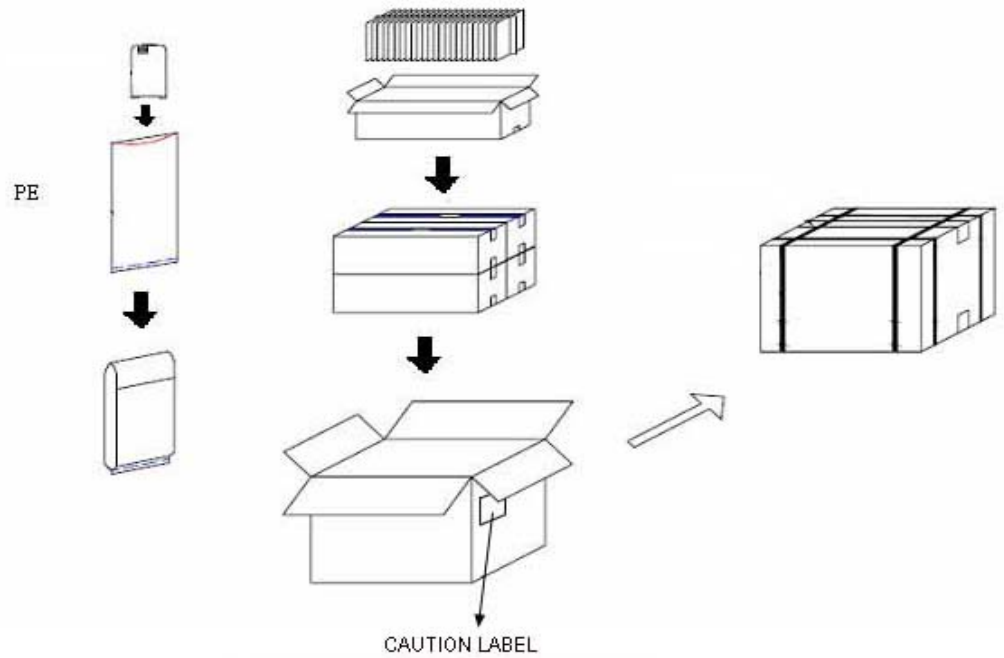
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9. PACKAGING:

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



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