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**REVISION HISTORY**

REV	DESCRIPTION	SALES	RFS	DATE	APPROVED
A	INITIAL RELEASE	DH	24776	5/10/2013	HM
B	ADD PIN.1 LOCATION TO THE CONNECTOR	DH	24956	6/21/2013	HM
C	ADD UN38.3 AND CB REPORT	DH	25529	5/22/2014	HM
D	ADD AMBIENT PRESSURE	DH	25544	6/2/2014	HM
E	CHANGE HUMIDITY FROM 65±20% TO 10-85% RH	DH	25553	6/13/2014	HM
F	REVISE LABEL	AM	25577	7/11/2014	HM
G	MARK WIRE LENGTH AS CRITICAL, ADD SECOND SHRINK WRAP, ADD PACKING INFO, UPDATE DIMENSIONS TO MAX VALUES, ADD LABEL SIZE	DH	25724	12/2/2014	HM
H	CHANGE CABLE LENGTH FROM 160 TO 110 mm, UPDATE BATTERY CASE MAX. DIMENSIONS FROM 67.0x76.0x28.5 TO 67.0x75.0x27.0 Max	DH	25752	12/18/2014	HM
I	CLARIFY WIRE LENGTH IS INCLUDING CONNECTOR, ADD WIRE COLORS FOR PIN 3,4,5 ADD JST TERMINAL P/N, CORRECT WIRE TYPE, ADD CARTON WEIGHT	DH	25763	1/2/2015	HM
J	UPDATE DIMENSIONS BATTERY PACK	NF	25205	2/12/2016	HM
K	UPDATE FUEL GAUGE FROM BQ20Z95 to BQ40Z50; UPDATE DIMENSIONS FROM 67.0*70*27(MAX) TO 67*76*27(MAX)	SV	27069	4/19/2018	HM
	REVISE MODEL NO. FROM 18650 TO BL2600C18654S1PG2646				

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)

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:

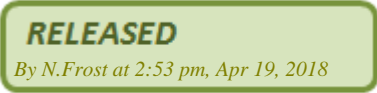
**Foot Note:**

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

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

Drawing Title: Li-Ion Cylindrical BATTERY PACK  
14.8 VOLTS @ 2600mAh  
MODEL NO: BL2600C18654S1PG2646  
PART NO: BL2600C18654S1PG2646

REV K

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**1. GENERAL SPECIFICATION:**

**BATTERY WITH SAFETY CIRCUIT AND PLASTIC HOUSING**

CELL:	Samsung 18650
PCM:	GLOBTEK STANDARD
NTC:	N/A
ID:	N/A
Fuel Gauge	Brand: TI PN: BQ40Z50
CONFIGURATION:	4S1P
WEIGHT:	TBA

**2. ELECTRICAL SPECIFICATION:**

RATED CAPACITY:	
NOMINAL VOLTAGE:	14.8V
WATT-HOUR RATING:	38.48Ah
CHARGING METHOD:	0.2C CC charge to 16.8V, then CV charge till charge current decline to $\leq 0.02C$ .
MAX. CHARGE VOLTAGE [V]:	16.8 ( $\pm 50mV$ )
CHARGE CURRENT:	800 mA
REC. CHARGE CUT OFF:	BY CURRENT 50mA OR TIMER 4H
MAX. CONTINUOUS DISCHARGE CURRENT:	3.5A
REC. DISCHARGE CUT OFF:	11.0 -12.0V
INTERNAL IMPEDANCE:	$\leq TBA m\Omega$
EXP. CYCLE LIFE:	>500 CYCLES > 70% OF INITIAL CAP. (0,5C/0,5C)
CELL PROTECTION:	
OVER CHARGE DETECTION: 4.3 $\pm 0.02V/CELL$ (0.8 TO 1.2 SEC. DELAY, RESUME 4.1 $\pm 0.03V$ )	
OVER DISCHARGE DETECTION: 2.75 $\pm 0.035V/CELL$ (76,8 to 115msec. DELAY, RESUME REMOVE LOAD & CHARGING CURRENT)	
OVER CURRENT DETECTION: 4.0A to 5.0 A (9.6 to 14.4 msec. DELAY)	

**3. CHARGER SPECIFICATIONS:**

CHARGE VOLTAGE & CURRENT:	19-27 V, 800mA max
CHARGE TIME:	3 to 4 HOURS (REF.)
CHARGER INPUT:	19-27 VDC

**4. AMBIENT CONDITIONS**

AMBIENT PRESSURE:	700hPa - 1060 hPa
TEMPERATURE RANGE FOR CHARGE:	0 TO +45°C
TEMPERATURE RANGE FOR DISCHARGE:	-20 TO +60°C
CHARGE RETENTION/STORAGE [%]:	1 YEAR AT -20 TO +20°C >80%
	3 MONTHS AT -20 TO +45°C >80%
	1 MONTH AT -20 To +60°C >80%
HUMIDITY:	10 - 85% RH



**Internal Fuel Gauge with SMBus**

**Internal Charger for Plug+Play**

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Drawing Title: Li-Ion Cylindrical BATTERY PACK	
14.8 VOLTS @ 2600mAh	
MODEL NO: BL2600C18654S1PG2464	
PART NO: BL2600C18654S1PG2646	REV K

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**5. ENVIORMENTAL AND SAFETY**

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

**6. CELL REGULATORY APPROVALS:** CELL APPROVED TO UL 1642

**7. 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
Safety:	CB TO IEC 62133: 2012 (2 nd Edition), Designed to meet UL 2054, IEC61960:2003, Japanese PSE Standards JIS C 8712:2006, JIS C 8714:2007



**Internal Fuel Gauge with SMBus**

**Internal Charger for Plug+Play**

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Drawing Title: Li-Ion Cylindrical BATTERY PACK

14.8 VOLTS @ 2600mAh

MODEL NO: BL2600C18654S1PG2646

PART NO: BL2600C18654S1PG2646

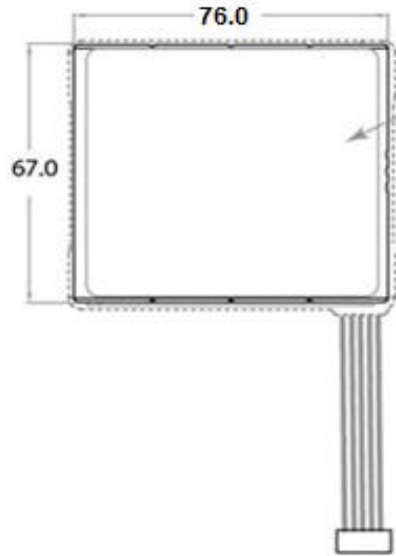
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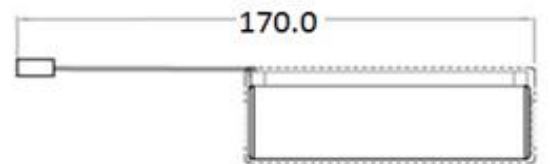
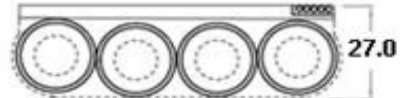
**8. MECHANICAL:**

DIMENSIONS:	67.0(L)x76.0(W)x27(T)mm( Max)
SHRINK WRAP:	2 layers GlobTek White Film with Brand
	The second shrink wrap shall be 90° displaced from the first one
WIRE TYPE:	UL3239, 24AWG
WIRE LENGTH WITH CONNECTOR:	100.0 mm ± 5.0 mm
L1 WIRE POLARITY:	RED = INPUT (Charger 19V-27V)
L2 WIRE POLARITY:	BLACK GND
L3 WIRE POLARITY:	GREEN OUTPUT (14.8V nominal)
L4 WIRE POLARITY:	YELLOW SMBD (data)
L5 WIRE POLARITY:	BLUE SMBC (Clock)
CONNECTOR TYPE:	see next page
STRIP LENGTH:	N/A
TIN LENGTH:	N/A
ADDITIONAL REQUIREMENTS:	10A melting fuse integrated in L3 (OUTPUT)



**NOTES:**

1. Additional PCB to convert the 19V-27V.
2. PCM fuel gauge charger.
3. Cables must come out as straight as possible.



**Internal Fuel Gauge with SMBus**

**Internal Charger for**

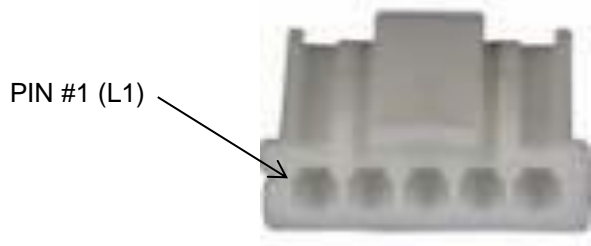
[ADDITIONAL OUTPUT PLUG OPTIONS ARE AVAILABLE BY CLICKING THIS LINK.](#)  
[STANDARD PLUGS AND CONNECTORS CAN BE SEEN ONLINE BY CLICKING THIS LINK](#)

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**7.CONNECTOR:**

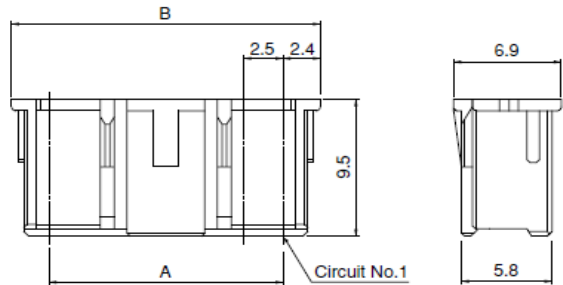
ACTUAL CONNECTOR'S, OVERMOLDS, MAY VARY SLIGHTLY FROM THE PICTURE BELOW



REAR VIEW

	EQUIVALENT	Y / N	
PLUG TYPE		Y	JST-XAP-05V-1
HOUSING TYPE			STANDARD TYPE
TERMINALS		Y	JST-XAP-5P
TERMINAL TYPE			FEMALE
OVER MOLD ORIENTATION			N/A
PLUG DIMENSIONS			N/A
BARREL PLUG INTERNAL SPRING CLIP			N/A
BARREL PLUG LOCKING NOTCH			N/A
POLARITY			N/A
ADDITIONAL REQUIREMENTS			N/A

[ADDITIONAL OUTPUT PLUG OPTIONS ARE AVAILABLE BY CLICKING THIS LINK.](#)  
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A=10.0 mm  
B=14.8 mm

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**Internal Charger for Plug+Play**


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MATERIAL:	TBD
BACKGROUND COLOR:	WHITE
TEXT COLOR:	BLACK
LABEL WIDTH: (mm)	50.0 mm
LABEL HEIGHT: (mm)	35.0 mm
ADDITIONAL REQUIREMENTS:	N/A
ADDITIONAL REQUIREMENTS:	N/A

**Internal Fuel  
Gauge with  
SMBus**

**Internal  
Charger for  
Plug+Play**






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www.globtek.com

PART NO: BL2600C18654S1PG2646 IEC designation: 4ICR19/65  
MODEL NO: BL2600C18654S1PG2646

**Input: 19V-27V for onboard charger  
Output: 14.8V, 2600mAh, 38.48Wh**

**CAUTION:**

- May explode if disposed of in fire
- Use specified charger only
- Do not short circuit

YYYYMM    MADE IN CHINA

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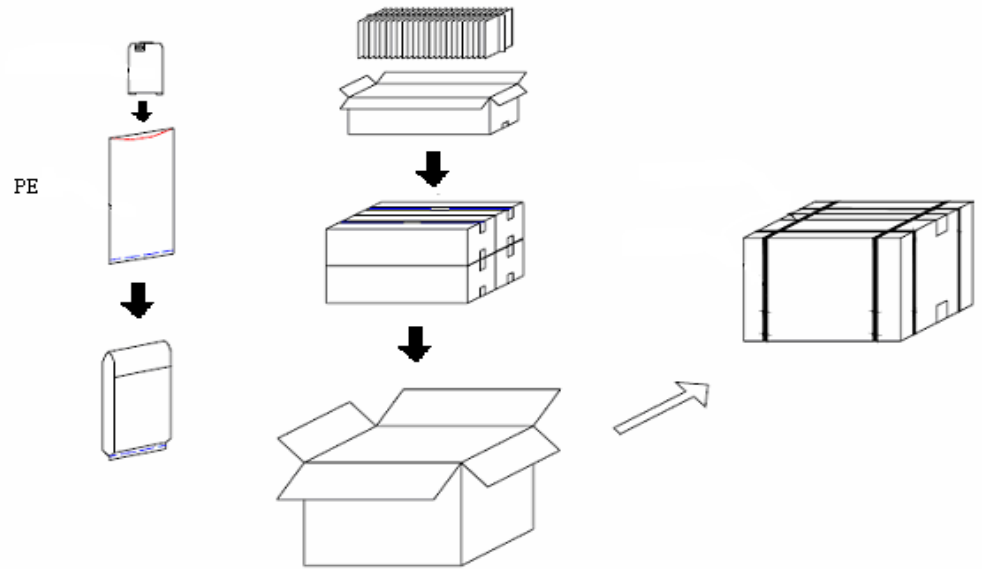
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**9. PACKAGING:**

PE BAG SIZE	TBD
CARTON SIZE:	302 x 247 x 154 mm
QUANTITY PER CARTON:	24 pcs
G.W.	5.85 kg/carton



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