



# GLOBTEK, INC.



ISO 9001:2015  
ISO 13485:2016  
ISO 14001:2015



POWER SUPPLIES & CHARGERS | BATTERY PACKS | CABLES & CONNECTORS | EV CHARGING COMPONENTS

***“LEADING-EDGE POWER SOLUTIONS SINCE 1984”***



# GLOBTEK, INC.



ISO 9001:2015  
ISO 13485:2016  
ISO 14001:2015

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***“LEADING-EDGE POWER SOLUTIONS SINCE 1984”***



# OVERVIEW

## THE GLOBTEK STORY

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

### Our History:

- Established in 1984 in New Jersey, USA
- Owns & operates its own China manufacturing and R&D center
- Maintains sales, distribution and technical offices in the USA, Europe and Asia.
- Serves a diverse customer base of top-tier customer in medical, IT, industrial, and many other industries
- Products are certified by most globally recognized regulatory and safety agencies including UL, ETL, Semko, TUV, and CCC





# OVERVIEW

## GLOBTEK BY THE NUMBERS

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

**36**

R&D Staff

- USA
- Germany
- Philippines
- China

**\$45M**

Annual  
Revenue

**>50%**

Products for Medical  
Applications

**>1200**

Safety Certifications

For  
**26**

Countries

**31**

Sales & Service  
Employees

Power Supply  
Production:

**55%**

Wallmount

**30%**

Desktop

**15%**

Open Frame, Other

**450**

Total Employees

Operating in  
**7**

Countries

**14**

New  
Products



# OVERVIEW

## OUR GLOBAL OPERATIONS

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

### Design, Manufacturing, Sales & Distribution

#### GlobTek, Inc. (HQ) Northvale, NJ USA



- 75 Employees
- R&D, sales & quality leadership
- Limited production capabilities
- Stocking & distribution hub
- ISO9001:2015 Registered

#### GlobTek Deutschland GmbH Münster, Germany



- Global engineering, technology, and R&D leadership
- European sales & distribution hub

#### GlobTek (Suzhou), Co., Ltd. Suzhou, China



- [100% owned & operated by GlobTek, Inc.](#)
- [IPC Class 3 certified](#)
- Vertically integrated
- Continuous lean initiatives
- Certified for medical IEC 60601
- [ISO9001:2015, 13485:2016 & 14001:2015](#)
- Optimized for high-mix/low-volume
- 7900 M<sup>2</sup> (two buildings)

#### GlobTek Philippines R&D Center

#### GlobTek UK, France & Sweden European Sales & Service



# OVERVIEW

## GLOBAL DISTRIBUTION WITH DIGIKEY

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

# DigiKey

DigiKey is our global distribution partner

DigiKey is one of the largest electronic component distributors in the world and a broad-line distributor of board level components.



GlobTek products in stock at DigiKey typically can be shipped the same day if ordered by 8PM (Central, USA time).



# OVERVIEW

## OUR CERTIFICATIONS

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

To view these documents in full size, as well as those related to...

- [RoHS](#)
- [WEEE](#)
- [REACH](#)
- [MSDS](#)
- [RMI](#)

(as well as our many **safety agency certifications**) please [click here](#) or visit:

[HTTPS://en.globtek.com/iso-certificates](https://en.globtek.com/iso-certificates)



ISO 9001



ISO 13485



ISO 14001



IPC-A 610-H  
(CLASS III)



# OVERVIEW

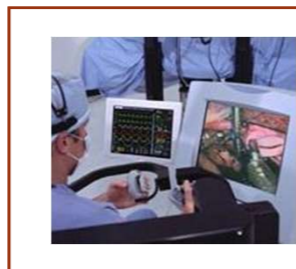
## THE INDUSTRIES WE SERVE

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

Just a few of the *many* industries we serve

- Medical / Dental
- Police / Fire / EMS
- InfoTech
- Telecom
- Warehouse & Logistics
- Wastewater Treatment
- Food & Beverage
- Gaming
- Oil & Gas / Industrial Mfg
- Metrology
- Many others





# OVERVIEW

## THE APPLICATIONS WE POWER

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

Just a few of the very many applications we power

#### Medical, Dental & Public Safety:

- Cardiac Remote Monitoring
- Neurostimulation
- Firefighter / EMS Equipment
- Surgical Navigation
- CPAP
- Dental Scalers
- Dialysis/Monitoring
- Dental Tools
- Breathing & Safety Apparatus
- Orthopedic Rehabilitation

#### Infotech, Telecom, Logistics, Misc. :

- Barcode Scanners
- Laser Metrology
- LED Lighting
- Home Automation Equipment
- VOIP Phones
- Security Systems
- Security
- Gaming
- M2M Communications
- Gas Measuring
- Servers & Accessories

 Arduino	 Mobile Routers (Police/EMS)	 Mobile Patient Monitoring	 Industrial Barcode Scanners
 Endoscopes	 Neurosurgical Navigation	 Exercise Equipment	 Casino Slot Machines
 3D Laser Scanners	 Neurostimulators	 Pulse Oximeters	 Respirator Mask Test Equipment
 Respiratory Protection	 Home Patient Monitoring	 IoT Gateways	 Lung Ventilators



# REGULATORY

## SAFETY CERTIFICATIONS

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

### GlobTek products have more of the certifications you need

Typically, GlobTek products have 7 safety marks. Our competitors usually only have two. GlobTek saves you many thousands of dollars in certification costs, and greatly speeds up your time to market.



REGION		Typical Competition
N. AMERICA	✓	✓
EUROPE	✓	✓
UK	✓	✓
CHINA	✓	\$5,000 NRE
JAPAN	✓	\$5,000 NRE
UKRAINE	✓	\$5,000 NRE
AUSTRALIA/NZ	✓	\$5,000 NRE
RUSSIA	✓	\$5,000 NRE
<b>NRE SAVED</b>		<b>\$25,000</b>

Note: not every product has every mark.



# REGULATORY

## SAFETY CERTIFICATIONS

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

An impressive regulatory portfolio covering over 26 countries and regions.

*This is only a partial list!*

GlobTek has an in-house team of specialists who maintain and expand our listings portfolio as a value-added service to our customers.

 Moldova	 Malaysia	 Brazil	 Argentina	 Singapore
 China	 Serbia	 Mexico	 Ukraine	 Taiwan
 Korea	 Russia	 Brazil	 Europe	 Hong Kong
 Japan	 Belarus	 Russia & CIS	 Israel	 India
 Finland	 Sweden	 Europe	 South Africa	 Saudi Arabia
 Gulf States	 Norway	 Denmark	 North America	 Australia & N.Z.



# CUSTOMERS

## MEDICAL & DENTAL CUSTOMERS

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

Just a few of the very many medical & dental customer we serve. 50% of GlobTek's production serve medical & dental applications.





# CUSTOMERS

## IT, TELECOM, & OTHER CUSTOMERS

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

Just a few of the very many.





# CUSTOMERS

## EMS & CONTRACT MANUFACTURING CUSTOMERS

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

The JABIL logo consists of the word 'JABIL' in a bold, blue, sans-serif font. A green swoosh underline is positioned beneath the letters 'A' and 'B'.

The SANMINA logo features a red square icon with a white stylized 'S' shape inside. Below the icon, the word 'SANMINA' is written in a black, sans-serif font, followed by a registered trademark symbol (®).

The NEOTech logo includes a blue square icon with a white stylized 'N' inside. To the right of the icon, the word 'NEOTech' is written in a blue, sans-serif font. Below 'NEOTech', the words 'NATEL EPIC OnCore' are written in a smaller, grey, sans-serif font.

The flex logo features the word 'flex' in a lowercase, blue, sans-serif font. A small trademark symbol (™) is located at the end of the word.

The PLEXUS logo consists of the word 'PLEXUS' in a white, sans-serif font, centered within a solid red rectangular background.

The FOXCONN logo features the word 'FOXCONN' in a bold, blue, sans-serif font, followed by a registered trademark symbol (®).



# OUR PRODUCTS

## JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

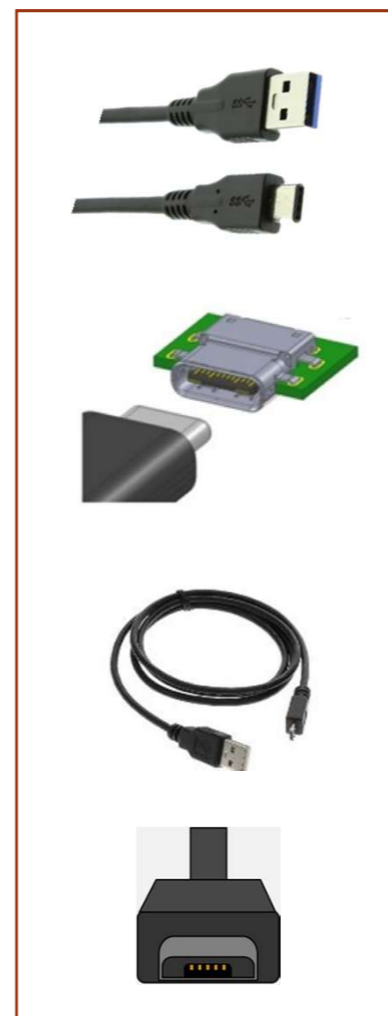
### POWER SUPPLIES & ADAPTERS



### BATTERY PACKS & CHARGERS



### USB CABLES & CONNECTORS



### EV CHARGING COMPONENTS





# OUR PRODUCTS

## POWER SUPPLIES & ADAPTERS

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

#### Features:

- Interchangeable Blades
- Waterproof & weatherproof to IP68
- Level V & VI Efficiency
- Power From 6W to 1200W

#### Configurations:

- Wall Plug In, Desktop, & Hybrid
- Vehicle DC/DC
- Open Frame / Internal
- Patented Level VI POE Injectors





# OUR PRODUCTS

## BATTERY PACKS & CHARGERS

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

### BATTERY PACKS

#### Features:

- UL2054, IEC62133, IEC61982 & more
- 18650, 21700 & other
- Li-On, Li-Po, LiFePO<sub>4</sub>, Li-SoCl<sub>2</sub>, Li-MnO<sub>2</sub>



### SINGLE & MULTI-BAY CHARGERS

#### Features:

- Smart Charging with SMBus
- Fuel Gauge
- Cell Balancing
- Encryption & Authentication
- Custom Enclosures
- Multi-position Configurations





# OUR PRODUCTS

## USB CABLES & CONNECTORS

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

### Features:

- USB 2.0
- USB 3.0
- USB 3.1
- Locking connectors (1 & 2 screw)



### USB 2.0



Type-A



Type-B

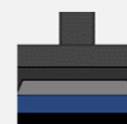


Type-B Mini



Micro

### USB 3.0



Type-A



Type-B



Type-C



Micro



Type-C Jack

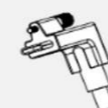
### USB 3.0 / 3.1 Locking Connectors



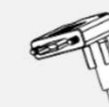
Straight



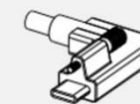
Straight



Down Angle



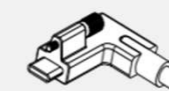
Down Angle



Right Angle



IPx7 Jack



Left Angle



# OUR PRODUCTS

## EV CHARGING COMPONENTS

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

#### Features:

##### Type 1 AC Charging Vehicle Connector

- Rated Voltage:250V AC
- Rated current :32A/40A/50A/80A

##### Type 2 AC Charging Vehicle Connector

- Rated Voltage:250V/480V AC
- Rated current :13A/16A/20A/32A

##### Type 2 DC Charging Vehicle Connector

- Rated Voltage:1000VDC
- Rated current :125A/200A

##### NACS (Tesla) AC Charging Vehicle Connector

- Rated Voltage:240VAC
- Rated current :16A/32A/40A/48A

##### Charging Socket

- Rated Voltage:250VAC /480VAC/1000VDC
- Rated current :32A/125A/200A



TYPE1 AC Charging  
with SAE J1772



Male to Female  
Charging Cable



SAE J1772  
Charging Socket



TYPE2 AC Charging  
With IEC 62196-3



TYPE2 DC Connector  
IEC62196-3



IEC 62196-3  
Charging Socket



NACS AC Tesla  
Charging Connector



- **Our Products**
- **New Products & Roadmap**
- **GlobTek Manufacturing**

US 2017/0118030 A1

(19) **United States**  
(12) **Patent Application Publication** (10) **Pub. No.: US 2017/0118030 A1**  
Love (43) **Pub. Date: Apr. 27, 2017**

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(54) **POWER OVER ETHERNET DELIVERY METHOD AND SYSTEM**  
(71) Applicant: **GlobTek, Inc.**, Northvale, NJ (US)  
(72) Inventor: **David R. Love**, Randolph, NJ (US)  
(21) Appl. No.: **14/918,863**

(52) **U.S. CL.**  
CPC ..... **H04L 12/10** (2013.01); **G06F 1/266** (2013.01); **G06F 1/3209** (2013.01)

(57) **ABSTRACT**  
A Power over Ethernet (PoE) system and method that can provide greater power efficiency and reduces greenhouse gas emissions is described. The PoE system includes power supply equipment, Ethernet cabling, and a powered device.





# NEW PRODUCTS & ROADMAP

## JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

- 100W USB PD
- 100W DC-DC for Airborne Equipment
- 100W AC-DC for Airborne Equipment
- 100W DC-DC for Automotive Equipment
- 225W Family
- 30W Lithium Smart Charger
- 4-Bay Lithium Smart Charger
- 4S1P 18650 Battery Pack
- 21700 Battery Pack Family
- Overmolded Connectors (TPE, PVC, Etc.)
- Electric Vehicle Charging Cables
- 550W 3" x 5" Open-Frame\*
- 800W 4" x 6" U-Frame\*
- 225W 2" x 4" for 277VAC\*
- High-voltage EV Locking Connectors\*

\*Coming Soon!

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4 Bay Lithium Smart Charger



30W Lithium Smart Charger



4S1P 18650 Battery Pack



100W USB PD



100W DC-DC (Airborne Equipment)



Overmolds (TPE, PVC, Etc.)



225W Potted



225W for 277VAC



# NEW PRODUCTS & ROADMAP

## 100W USB POWER DELIVERY

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

### Features:

- Universal input range: 85–264Vac (100–240Vac nom.)
- 100W (5A for all outputs)
- Fixed cord or integral Type-C jack
- PDOs: 5V, 9V, 12V, 15V, 15.1V, 20V
- PPS: 3.3V - 21V (continually adjustable)
- 40°C ambient @ full power (60°C with derating)
- Touch current:
  - $<100\mu\text{A NC}$ ,  $<150\mu\text{A SFC}$ , Class II @ 264Vac
  - $<5\mu\text{A NC}$ ,  $<100\mu\text{A SFC}$ , Class I @ 264Vac
- Dielectric strength: 5656Vdc / 4000Vac
- Size: 2.47" × 5.88" × 1.38"  
62.8 × 149.3 × 35.0mm
- ITE + Medical + Home-Healthcare + Household Approvals:
  - IEC60601-1/IEC60601-1-11/IEC62368-1/IEC61558-2-16/IEC60335-1
- Efficiency: DoE Level VI and CoC Tier 2 compliant
- Ingress protection : IP52



**GTM961005P**



# NEW PRODUCTS & ROADMAP

## 100W DC-DC FOR AIRBORNE EQUIPMENT

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

### Features:

- 2 x MOPP Isolated DC-DC
- Wide-range input: 10.2–39.6Vdc (12–36Vdc nom.)
- 100W continuous, 120W peak
- Output range: 12V to 54VDC
- 40°C ambient at full power (70°C with derating)
- Touch current: <8μA NC, <40μA SFC
- Dielectric strength: 4300Vdc
- Size : 2.47" × 5.88" × 1.34" (62.8 × 149.3 × 34mm)
- Medical + EMS approvals: IEC60601-1, IEC60601-1-12 (pending); IEC62368-1 or others, per request
- EMC:
  - Medical: IEC60601-1-2, CISPR25 Class 3
  - **Airborne Equipment: RTCA DO-160G**
  - Aftermarket automotive: EN50498



**GTD9X1002**



# NEW PRODUCTS & ROADMAP

## 100W DC-DC FOR AUTOMOTIVE EQUIPMENT

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

### Features:

- 2 x MOPP Isolated DC-DC
- **Lower cost than GTD9X1002** (without DO-160G compliance)
- Wide-range input: 10.2–39.6Vdc (12–36Vdc nom.)
- 100W continuous, 120W peak
- Output range: 12V–54VDC
- 40°C ambient at full power (70°C with derating)
- Touch current:  $<8\mu\text{A}$  NC,  $<40\mu\text{A}$  SFC
- Dielectric strength: 4300Vdc
- Size : 2.47" × 5.88" × 1.34" (62.8 × 149.3 × 34mm)
- Medical + EMS approvals: IEC60601-1, IEC60601-1-12 (pending); IEC62368-1 or others, per request
- EMC:
  - Medical: IEC60601-1-2, CISPR25 Class 3
  - Aftermarket automotive: EN50498



**GTD9X1003**



# NEW PRODUCTS & ROADMAP

## 100W AC-DC FOR AIRBORNE EQUIPMENT

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

### Features:

- Universal input:
  - 80-264Vac @ 47-63Hz (100–240Vac 50/60Hz nom.)
  - 100-122Vac @ 360-440Hz (115Vac 400Hz nom.)
- 100W continuous, 120W peak
- Output range: 12V–54VDC
- 40°C ambient at full power (70°C with derating)
- Very low input current distortion and inrush current
- Touch current:
  - $<80\mu\text{A}$  NC,  $<150\mu\text{A}$  SFC, Class II input @ 122Vac/400Hz
  - $<30\mu\text{A}$  NC,  $<110\mu\text{A}$  SFC, Class I input @ 122Vac/400Hz
- Size : 2.47" × 5.88" × 1.34" ( 62.8 × 149.3 × 34mm )
- Medical + Home-Health +EMS approvals: IEC60601-1, IEC60601-1-12, IEC62368-1 or others, per request
- EMC: Medical: IEC60601-1-2; **Airborne: DO-160G**



**GTM9X1001P**



# NEW PRODUCTS & ROADMAP

## 30W LITHIUM SMART CHARGER

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

### Features:

- Universal input range: 90–264Vac (100–240Vac nom.)
- For 1S to 4S Li-Ion/Li-Polymer/LiFePO4 batteries
- Smart charge control for maximal battery health
- 40°C operating ambient at full power
- Touch current:
  - $<100\mu\text{A}@264\text{Vac NC}$
  - $<500\mu\text{A}@264\text{Vac SFC}$
- Dielectric Strength: 5656VDC / 4000VAC
- Size : 2.1" x 4.63" x 1.44" (53.47 x 117.53 x 36.60mm)
- ITE + Medical + Household Approvals:  
IEC60601-1/IEC62368-1/IEC61558-2-16/IEC60335-1
- Ingress protection: IP52



**GTM91128**

Charging battery type	Output Voltage(V)	Max Fast Charge Current(A)	Max Output Power(W)
LiFePO4 1S Charger	3.6	2	7.2
LiFePO4 2S Charger	7.2	2	14.4
LiFePO4 3S Charger	10.8	2	21.6
LiFePO4 4S Charger	14.4	2	28.8
Li-Ion/Li-Polymer 1S Charger	4.2	2	8.4
Li-Ion/Li-Polymer 2S Charger	8.4	2	16.8
Li-Ion/Li-Polymer 3S Charger	12.6	2	25.2
Li-Ion/Li-Polymer 4S Charger	16.8	1.7	28.56



# NEW PRODUCTS & ROADMAP

## 225W FAMILY

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

### Features:

- Extended input range: 90–264Vac (100–240Vac nom.)
- With 10 CFM Forced Air: 225W,
- With Convection Cooling : 140W (inclusive of fan power)
- Multiple mechanical configurations/enclosure options:
  - Open-frame, L-frame, cage
  - Oversized PCBs for retrofit applications
  - Potted
- Open-frame size: 4.00" × 2.00" × 1.18" (101.6 × 50.8 × 30.0mm)
- Output voltage fine adjustment (with potentiometer) option
- Earthed output or floating output (with functional earth)
- ITE safety approval: IEC62368-1 (pending), others by request
- EMC: EN55032, EN55035, Class B EMI without external ferrites or shielding
- ITE + Medical + Home-Healthcare + Household Approvals:  
IEC60601-1/IEC60601-1-11/IEC62368-1/IEC61558-2-16/IEC60335-1



Standard



Cage



L-Frame



Potted

**GTM96225**



# NEW PRODUCTS & ROADMAP

## 21700 BATTERY PACK FAMILY

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

### Features:

- Pack rated capacity: 5000mAh to 20000mAh
- Cell size/type: 21700 lithium-ion
- Cell configurations: 1S1P to 4S4P
- Continuous discharge current: 5A to 8A
- SMBus-compatible fuel-gauge onboard
- Charge by external charger
- Customizable connector and cable
- 0°C–45°C operating ambient (in charge)
- -20°C–45°C operating ambient (in discharge)
- Safety:
  - IEC 62133-2:2017  
EC 62133-2:2017/AMD1:2021
  - EN 62133-2:2017+A1:2021,  
BS EN 621332:2017+A1:2021



**BL5000C2170**

Available cell configurations			
1S1P	1S2P	1S3P	1S4P
2S1P	2S2P	2S3P	2S4P
3S1P	3S2P	3S3P	3S4P
4S1P	4S2P	4S3P	4S4P



# NEW PRODUCTS & ROADMAP

## 4S1P 18650 BATTERY PACK

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

### Features:

- Pack rated capacity : 2600mAh
- Cell size/type :18650 Lithium-ion
- Cell configuration: 4S1P
- Continuous discharge current : 1C (2.6A)
- Nominal pack voltage: 14.6V
- Built-in charger, just apply DC voltage
- Charging source input voltage : 18V–27V
- SMBus-compatible fuel-gauge onboard management system (BMS)
- 0°C–45°C operating ambient (in charge)
- -20°C–45°C operating ambient (in discharge)
- Size: 2.64" × 2.99" × 1.06" (max.) (67.0 × 76.0 × 27mm max.)
- Safety: IEC 62133-2:2017 / UN38.3



**BL2600C18654S1P**



# NEW PRODUCTS & ROADMAP

## 4-BAY LITHIUM SMART CHARGER

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

### Features:

- 4-Bay Charger
- DC input: 18V–24V
- Charging voltage : 16.64–16.84V per bay
- Charging current : 1.2A max per bay
- Smart charge control for maximal battery health
- Customizable connectors/cables
- 40°C operating ambient at full power
- Size: 7.1" × 15.2" × 2.0" (180 × 385 × 51.5 mm)
- Safety : UL60601-1 3rd Edition Medical
- Ingress protection : IP42



**GTM93008**



# NEW PRODUCTS & ROADMAP

## OVERMOLDED CONNECTORS

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

### Features:

- Overmold Material: PVC , Medical PVC, TPE etc.
- Used connector : MOLEX , JST , BINDER , LEMO etc.



**OVERMOLDED CONNECTORS**



# NEW PRODUCTS & ROADMAP

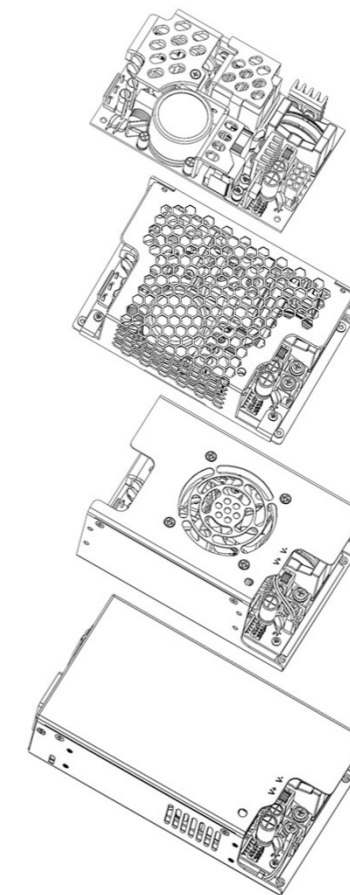
## 550W 3"x 5" OPEN FRAME (Coming Soon)

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

### Features:

- Universal input range: 90–264Vac (100–240Vac nom.)
- 550W (with fan), 275W (natural convection), high power-density
- Full power @ 90Vac and 50°C, no derating required
- Multiple mechanical configurations/enclosure options:  
Open-frame, baseplate, cage, top-fan, end-fan
- Open-frame size: 5.00" × 3.00" × 1.31" (127.0 × 76.2 × 33.4mm)
- Auxiliary +12V fan and +5V standby outputs
- Power-good, remote-off, & remote-sense
- Output voltage fine adjustment (with potentiometer)
- Earthed output or floating output (with functional earth)
- ITE + Medical + Household Approvals:  
IEC60601-1/IEC62368-1/IEC61558-2-16/IEC60335-1 (pending)
- EMC:
  - IEC60601-1-2, EN55032, EN55035
  - Class B EMI without external ferrites or shielding



**GTM965500P**



# NEW PRODUCTS & ROADMAP

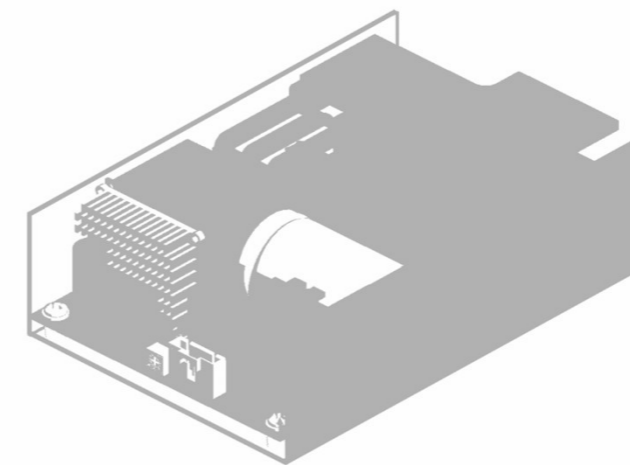
## 800W 4" x 6" U-FRAME (ComingSoon)

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

### Features:

- Universal input range: 90–264Vac (100–240Vac nom.)
- 800W (with fan), 550W (natural convection), high power-density
- Full power @ 90Vac and 50°C, no derating required
- Multiple mechanical configurations/enclosure options: U-frame, cage, top-fan, end-fan
- U-frame size: 6.00" x 4.00" x 1.69" (152.3 x 101.6 x 43.0mm)
- Auxiliary +12V fan and +5V standby outputs
- Automatic fan on/off control
- Power-good, remote-off, & remote-sense
- Output voltage fine adjustment (with potentiometer)
- Earthed output or floating output (with functional earth)
- ITE + Medical + Household Approvals: IEC60601-1/IEC62368-1/IEC61558-2-16/IEC60335-1
- EMC:
  - IEC60601-1-2, EN55032, EN55035
  - Class B EMI without external ferrites or shielding



**GTM968000P**



# NEW PRODUCTS & ROADMAP

## 225W 2" x 4" FOR 277VAC (Coming Soon)

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

### Features:

- Extended input range: 99–305Vac (110–277Vac nom.)
- For 3-phase wye installations up to 480Vac
- Multiple mechanical configurations/enclosure options:
  - Open-frame, L-frame, cage
  - Oversized PCBs for retrofit applications
- Open-frame size: 4.00" x 2.00" x 1.18" (101.6 x 50.8 x 30.0mm)
- Output voltage fine adjustment (with potentiometer) option
- Earthed output or floating output (with functional earth)
- ITE safety approval: IEC62368-1 (pending), others by request
- EMC: EN55032, EN55035 / Class B EMI *without external ferrites or shielding*
- For 85–264Vac (100–240Vac) input, see existing **GTM96225xP**



**GTM96225xPHV**



# NEW PRODUCTS & ROADMAP

## HIGH-VOLTAGE EV LOCKING CONNECTORS (Coming Soon)

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

### Features:

- LOW CURRENT LOCKING JACK & PLUG
- IP67 & IP6K9K
- 2-, 3- & 4-Pin Plug & Jack
- Straight & Right Angle
- 800Vdc / 35A max
- 800Vdc / 70A
- 600Vdc / 50A max
- 800Vdc / 50A max
- 800Vdc / 70A max
- 1000Vdc / 80A
- 1000Vdc / 200A



800Vdc / 35A  
2-Pin



800Vdc / 50A  
4-Pin



1000Vdc / 200A  
2-Pin (Right Angle)



600Vdc / 50A  
3-Pin



800Vdc / 70A  
2-Pin



1000Vdc / 200A  
2-Pin (Straight)



# GLOBTEK MANUFACTURING

OUR WHOLLY-OWNED & OPERATED FACTORY IN SUZHOU, CHINA

## JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

## GlobTek (Suzhou) Co., Ltd.



*GlobTek's China facility is comprised of 7900M<sup>2</sup> in two buildings. These two buildings house vertically-integrated manufacturing and associated operational functions, an R&D center, sales, customer service, and global IT support.*

[100% owned & operated by GlobTek, Inc.](#)

Vertically integrated

Continuous lean initiatives

Production certified for medical IEC 60601

[ISO9001:2015, 13485:2016 & 14001:2015](#)

[IPC-A-610H Class 3 certification](#)

Optimized for fast turnaround & low MOQs

Located in Suzhou, nearby Shanghai

Controlled by Oracle™ system for end-to-end product traceability and FIFO

*Committed to excellence*

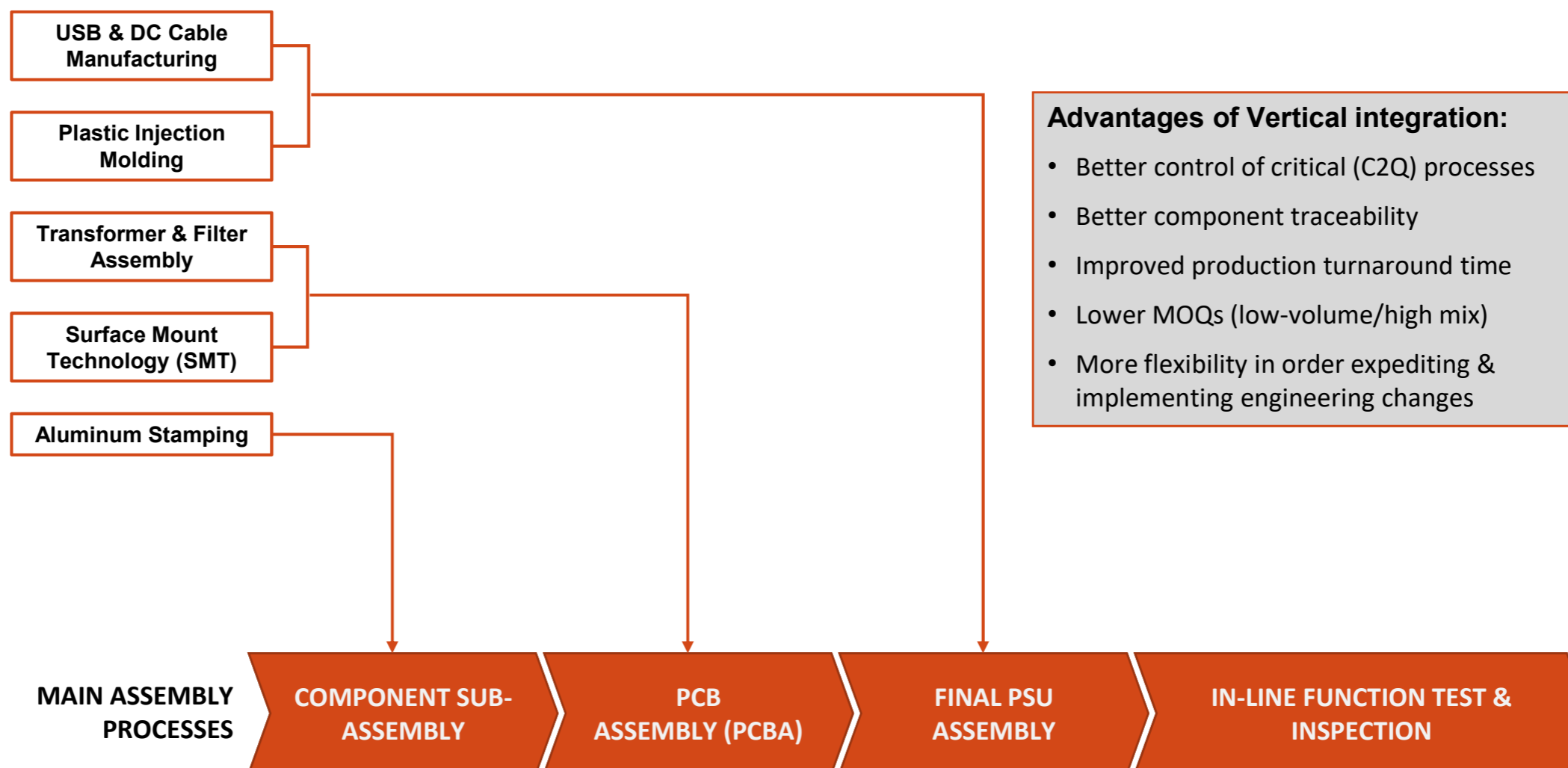


# GLOBTEK MANUFACTURING

## VERTICAL INTEGRATION

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)





# GLOBTEK MANUFACTURING

## TQM - TOTAL QUALITY MANAGEMENT

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

### “Quality that creates trust. Reliability that avoids costs.”

The quality of finished goods can *only* be ensured when manufacturing processes are controlled. While there are many aspects to process control, setting appropriate test & inspection control points are essential. At GlobTek, these control points are well documented, as are the test & inspection procedures associated with them. These control procedures can *only* be altered via documented risk assessment procedures.

Those test and inspection procedures quoted to customers, or those required by them, are *never* altered without the customers’ documented approval.

***GlobTek typically maintains first-pass yields of over 99.9%, and averages fewer than 5 field complaints each year.***

### TOTAL QUALITY MANAGEMENT



These are just some of the in-line process controls deployed in GlobTek’s production:

#### Automated Function Tests (ATE)

Computerized procedure testing up to 24 items on each power supply or battery produced.

#### PSU Burn-in / Battery Cycling

A stress test on each unit produced. PSU’s are burned in for a minimum of 4 hours each.

#### PSU Hi-pot Test

Ensures the safety of each product under heightened electrical stress.

#### Auto Optical Inspection (AOI)

Ensures that, at the PCBA level, all products have quality solder joints, and that components are properly seated on the board.

#### 100% in-line PSU vibration test

Designed to identify intermittent failures which may not show up in traditional function tests.

#### Inline Circuit Test (ICT)

ICT finds open/short circuits at the earliest possible stage, BEFORE final assembly, burn-in and packing.



# GLOBTEK MANUFACTURING

## POWER SUPPLY ASSEMBLY

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

### Main Processes

- Pre-work & sub-assembly
- SMT & Manual insertion (DIP)
- Wave soldering (fixturized to ensure quality soldering)
- Top-level assembly & burn-in
- Final function test (ATE), Hi-pot & packing





# GLOBTEK MANUFACTURING

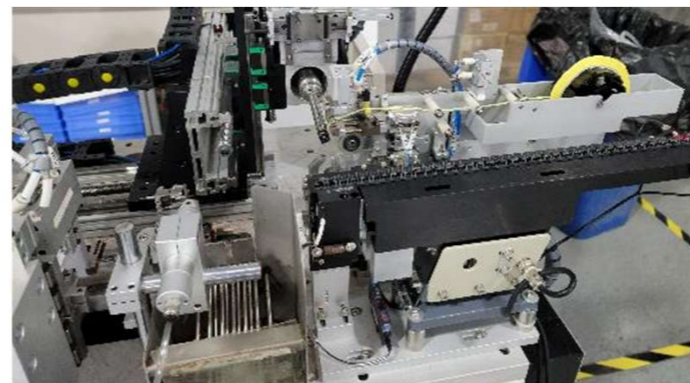
## TRANSFORMER & FILTER ASSEMBLY

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

### Main processes:

- Automated & numerically controlled bobbin winding sub-assembly
- Numerically controlled tinning
- Automated shield sub-assembly
- Varnish, vacuum & baking
- Final test & packing





# GLOBTEK MANUFACTURING

## SURFACE MOUNT TECHNOLOGY (SMT)

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

### The SMT process:

SMT is the automated process by which very small components are assembled at lightning-fast speeds to the PCB.

GlobTek deploys new Samsung/Hanhwa brand SMT equipment.

This process includes:

- Precision screen printing
- Precision pick & place
- Seven section reflow oven
- Automated optical inspection (AOI).





# GLOBTEK MANUFACTURING

## USB & DC CABLE ASSEMBLY

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

### GlobTek's cable assembly process includes:

- High-volume precision wire cutting
- Automated wire stripping & tinning
- Precision laser shield cutting
- Wire assembly
- Injection molding
- Autotest & packaging





# GLOBTEK MANUFACTURING

## PLASTIC INJECTION MOLDING

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

### PLASTIC INJECTION MOLDING

GlobTek maintains in-house plastic injection molding to ensure the quality, traceability and flexibility of critical plastic components.

We can be sure these components comply with regulatory and general quality requirements because GlobTek, not a subvendor, takes direct responsibility for qualifying materials, validating sub-component shipments, and the control of all critical processes.





# GLOBTEK MANUFACTURING

## BATTERY PACKS

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

### Battery pack assembly includes:

- Cell sorting
- SMT PCB Assembly
- Adhesive / UV Curing
- Welding
- Final Assembly
- Heat-shrink wrapping
- Function Test
- Automated burn-in / cycling





# GLOBTEK MANUFACTURING

## TEST & INSPECTION EQUIPMENT

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

#### Automated Function Tests (ATE)

Computerized procedure testing up to 24 items on each power supply or battery produced.

#### PSU Burn-in / Battery Cycling

A stress test on each unit produced. PSU's are burned in for a minimum of 4 hours each.

#### PSU Hi-pot Test

Ensures the safety of each product under heightened electrical stress.

#### Auto Optical Inspection (AOI)

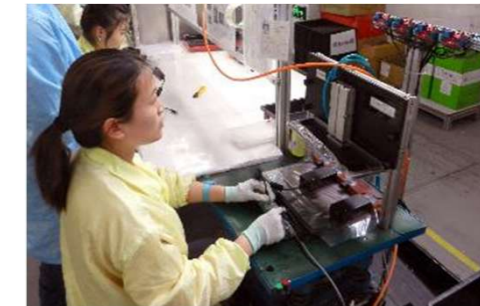
Ensures that, at the PCBA level, all products have quality solder joints, and that components are properly seated on the board.

#### 100% in-line PSU vibration test

Designed to identify intermittent failures which may not show up in traditional function tests.

#### Inline Circuit Test (ICT)

ICT finds open/short circuits at the earliest possible stage, BEFORE final assembly, burn-in and packing.



Note: Not all tests are applicable to all products



# GLOBTEK MANUFACTURING

## GLOBTEK AUTOMATION

### JUMP TO...

- [Our Products](#)
- [New Products & Roadmap](#)
- [GlobTek Manufacturing](#)

### Surface Mount Technology (Pick & Place)

Robotic placement and verification of small chip components onto the PCB

### Automated Transformer/Filter Sub-assembly

- Precision bobbin winding
- Teflon tube placement
- taping

### Hookup Wire Stripping & Tinning

- Strip length
- Twist & tinning quality (no damaged insulators, stray wires, “birdcaging”, etc.)

### Automated DC Cable Prep

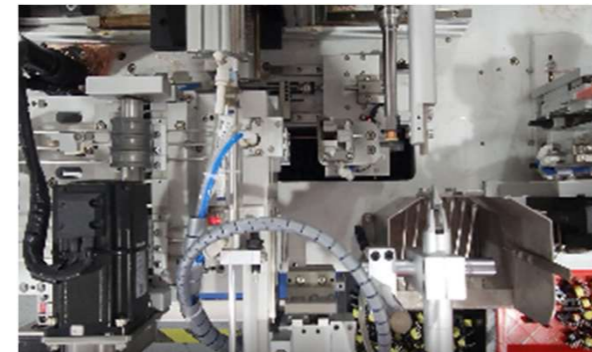
- Heat shrink tubing
- Jacket stripping
- Insulation stripping
- Conductor twisting & tinning

### USB Cable Laser Shield Cutting

Shield material is cut cleanly and precisely, without damage to insulation layer underneath.

### USB-C Cable Connectorization

Ensures precise, high-quality solder points between PCB and conductors





**Thank You!**

