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|---|---|
| Drawing Title: GT-96180-1830-T3-PP, PoE, Passive Power Injector, Efficiency Level: USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782, Case Color/Style: GlobTek Black, Desktop/External, Single Port Power Over Ethernet Midspan (IEEE802.3af PoE PSE), Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C14, , Output Rating: 18.00W, 30.0V@0.6A, Pin Out: PoE injector wiring Data, Data+Power, RJ45 x 2, Output Configuration: N/A mm, N/A/ Cond, N/A, None, Ferrite: None, N/A, GT Cord # C0745, Blades/Input Cord: Not Applicable, Approvals: | |
| Model No. GT-96180-1830-T3-PP | |
| Part No./Ordering No. GT-96180-1830-T3-PP | Rev C |

In Addition to GlobTek Inc.'s renewed ISO9001:2015 - Quality Management System Certification, GlobTek Inc. is now certified to:

ISO13485:2016 - Medical Devices Quality Management System Certification
ISO14001:2015 - Environmental Management System Certification

ISO Certificates are available online at https://www.globtek.com/iso-certificates/

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 (attached to the end of this document), which supersede all other agreements, terms, and conditions (https://www.globtek.com/terms-and-conditions/).

The purchaser of this product (Customer) agrees that it is their sole responsibility to determine suitability/fitness of the product described in this specification for their application and to take precautions for protection against any hazards attendant to the handling and use of the product.

Footnote:

GlobTek Inc. will not be liable for the safety and performance of these power supplies/battery packs if unauthorized access and repair occurs. End user should consult applicable UL, CSA or EN standards for proper installation instruction.

Limitation of Use:

GlobTek products are intended for use with commercial, medical, and/or industrial equipment only. 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.

## 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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# REVISION HISTORY

| REV | DESCRIPTION | SUB | DATE | APPROVED |
|---|---|---|---|---|
| C | Update pinout to POE RJ45X2, change packing: master carton dimensions to 442*330*275 mm, gift box dimensions to 125*105*43 mm, Qty to 60 pcs/carton<br>Update grounding configuration from E1 to F3 | QA | 08/20/2019 | QA |
| B | Change input current from 0.5A to 0.6A, add EAC, update RoHS 2 to RoHS, Ukraine | QA | 06/01/2018 | QA |
| A | Initial Release | jwarn | 05/02/2017 | QA |

## POWER SUPPLY INFORMATION

| | |
|---|---|
| TYPE | Desktop/External |
| TECHNOLOGY | Single Port Power Over Ethernet Midspan (IEEE802.3af PoE PSE) |
| CASE COLOR | GlobTek Black |
| NAMEPLATE RATED INPUT | 100-240V~, 50-60 Hz, 0.6A |
| INPUT CONFIG | IEC 60320/C14 |
| WATTS | 18.00 |
| VOLTS OUT | 30.0 |
| CURRENT OUT (Amps) | 0.6 |
| BLADE/CORD INCLUDED | N/A Not Applicable |
| BLADE/CORD INSTALLED | N/A :Not Applicable |
| INGRESS PROTECTION | |
| GROUNDING CONFIGURATION | (F3) Floating output, capacitor between output common and functional earth |
| EFFICIENCY LEVEL | USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782 |
| OUTPUT CONFIGURATION | N/A mm, N/A/ Cond, N/A, None, Ferrite: None, N/A, GT Cord # C0745 |
| CONNECTOR PIN OUT | PoE injector wiring Data, Data+Power, RJ45 x 2 |
| LABEL SPECS | Standard GT,L-1186 |
| SPECIAL BARCODE LABEL MATERIAL | No |
| PACK SPEC | Standard DT, Individually Box |
| USER MANUAL | |

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| Part No./Ordering No. GT-96180-1830-T3-PP | Rev C |

Notes/Modifications/Customizations (notes in this section supersede the values shown in the standard spec)

DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE

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## ELECTRICAL SPECIFICATIONS

GlobTek's 18W and 36W Passive Power over Ethernet Midspan Injectors offers cost effective and reliable solution for remote powering of specialized non-standard Ethernet Powered Devices requiring up to 36 Watts over existing network infrastructure. These Passive Injectors are configured to provide 18 or 36 watts of power over two pairs (4,5 + and 7,8 -) per IEEE 802.3 defined wires.
When the load device is connected, GlobTek's Passive PoE Injector will immediately source power to the Powered Device.
GlobTek's 56V Passive PoE Injectors are designed to function with and provide power to any IEEE 802.3af or 802.3at PoE device.
For specialized applications Globtek can also provide lower output voltage models between 18V and 54V with reduced circuit complexity, these are referred to as our Simple Power over Ethernet Injector products.

### MAIN FEATURES

- Cost Effective Passive PoE, supplies continuous power without requiring handshaking communications
- Output can source up to 18W or 36W at 18V, 24V, 36V, 48V, 54V or 56V
- Withstands high energy EMI Immunity events without going into latched shutdown state
- Short Circuit and Overload Protection protects Ethernet cabling if Splitter has a Short Circuit
- Green LED Indicates Output Power Availability
- Passive PoE models can transfer 10/100/1000 BaseT Data Rates (Gigabit compatible)
- Simple, Low Cost PoE models can transfer 10/100 BaseT Data Rates
- Universal Input Power from 100Vac to 240Vac
- Green Design: Compliant to DoE Efficiency level VI requirement
- Full Protection for Over Voltage and Current
- Compact 104 x 54 x 40 mm (w/o MTG Flange)

### APPLICATIONS

- Custom Ethernet Power Distribution Architecture
- Network Security Cameras
- Point of Sales
- Industrial Controllers
- Electronic Time Card Readers
- Building Security Systems
- Network Camera with Pan, Tilt and Zoom Features
- Electronic Signs
- RFID Readers
- Motion Sensors
- HVAC Controllers
- Magnetic Card Readers
- Digital Time clock

### A) ELECTRICAL SPECIFICATIONS:

INPUT
Input Range: 90-264 Vac (85-264Vac @ 85% of rated output power)
Input Line Frequency: 47-63Hz


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Input Current:< 1A RMS @ 90Vac Full Load for 36W
< 0.6A RMS @ 90Vac Full Load for 18W
Inrush Current: 30/60A max at 115/230Vac
No load Power: < 100mW
Efficiency: > 87.4%, 4 Point Avg efficiency. Typical at Full Load for 36W
> 85.0%, 4 Point Avg efficiency. Typical at Full Load for 18W
Turn on-delay: 1 Second Typical @ 115Vac
Input Line Protection: MOV Transient protected.
Hold-up time: 8ms typical at nominal input voltage and full load
Touch current at output: <100uA
Earth Leakage current at input: <100uA
Isolation: Input to Output, 3000 VAC

OUTPUT
Power Injection Pins: 4&5 for V+ and 7&8 for Common
Port Voltage: 56V standard, 18V to 54V optional
Port Power: 18W or 36W Max
Port Voltage Regulation: +/-3%, and less than 57Vdc
Port Voltage Ripple: 100mVpp max

B) ENVIRONMENTAL
Temperature: Operating, -10C to 40C
Storage, -30C to 80C
Humidity: 0% to 95% Relative Humidity, Non-Condensing
Altitude: Operating, Up to 5000M

C) MECHANICALS / ENCLOSURE
Housing: High impact plastic, 94V0 polycarbonate, non-vented
Markings: Label and/or Pad Printed and/or Molded in the case
Dimensions: 104*54*40 mm (w/o MTG Flange)
Weight: 0.35 Lb, 155 gr.
AC Input mechanical options: Desktop C6, C8, C14 or C18 IEC Inlet.
Hybrid option (Desktop or Changeable Blade Wall Plug-in) Class I or Class II input
Data and Data+Power Connector: Fully Shielded RJ45

D) EMISSIONS and IMMUNITY
Emission: Meets FCC Class B Part 15, EN55022 Class B
Immunity: Meets the following;
EN610000-6-2 (Industrial Level Immunity Compliance, extended levels shown in parenthesis)
EN 61000-4-2 ESD (+/-18KV Air, +/-8KV Contact, criteria A) (+/-20KV Air, +/-10KV Contact, criteria B)
EN 61000-4-3 Radiated Immunity
EN 61000-4-4 EFT (+/-2.5KV, criteria A) (+/-4KV, criteria B)


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EN 61000-4-5 Surge (+/-2KV Line-Line, +/-4KV Line to Gnd, criteria A)
EN 61000-4-6 Conducted Susceptibility
EN 61000-4-11 Voltage Dips and Interrupts
EN 61000-3-2 Harmonics, Class A

E) SAFETY APPROVALS
Compliant Safety Standards: See listings at end of this drawing for specifics

F) INTEROPERABILITY: Passive and Simple 48V and 56V models work with all types of AF and AT Splitters and PoE appliances with appropriate input power requirements

G) SPECIAL OPTIONS
1. Custom Markings
2. High Rel PCB laminate with Plated through Holes for IPC610 Class 2 Compliance
3. Special Housing Color


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4. Reduced Output Voltage, 18V to 54V

## 18W PoE Injector, Ethernet InterOperability and Compatibility Testing

Injector tested: *Model GT-96180-1856*, rated 18W output, 56Vdc, IEEE802.3-2003 af Compliant

*Note, assuming 80% eff splitter, max Pout = 14.4W (14.4/18 = 0.8)*

| Splitter Model Used | Splitter Description | Splitter O/P Power Rating | Splitter Load During Testing |
|---|---|---|---|
| GlobTek GT-91087 | 5V, af type | 8W | 7.5W |
| PowerDSIne PD-AS-601/5 | 5V, af type | 10W | |
| Linksys POEES5 | 5V, af type | 10W | |
| Axis 5008-001-02 | 5V, af type | 10W | |
| PowerDSIne PD-AS-701/12 | 12V, at type | 24W | 14W |
| Phihong POE21-120-R | 12V, at type | 21W | |
| Cisco 7970 Series Phone | IP Phone, af type | Input to Phone rating 48V, 0.38A | |

## 100BaseT/1000 Base T network digital transmission testing

*(During testing ethernet communications is passed thru Injector and then Splitter and then to a computer)*

Injector tested: *Model GT-96180-1856*, rated 18W output, 56Vdc, IEEE802.3-2003 af Compliant

*Injector is Gigabit designed and tested, to 100 Base T and 1000 Base T*

| Splitter Model Used | Splitter Description | P/F | Notes: |
|---|---|---|---|
| Axis 5008-001-02 | 100 Base T rating | P | Limited bandwidth splitter |
| PowerDSIne PD-AS-701/12 | 1000 Base T rating | P | Full bandwidth splitter |

TO ADDRESS SYSTEM-LEVEL EMI CONCERNS, FERRITE CHOKES/BEADS MAY BE ADDED/REVISED UPON REQUEST. A SAMPLE KIT OF GLOBTEK'S STANDARD FERRITES IS AVAILABLE UNDER GLOBTEK P/N: EMI-MITIGATION-KIT1

FOR ADDITIONAL INFORMATION, PLEASE READ OUR WHITE PAPER AT: https://r.globtek.info/3QeaqtD


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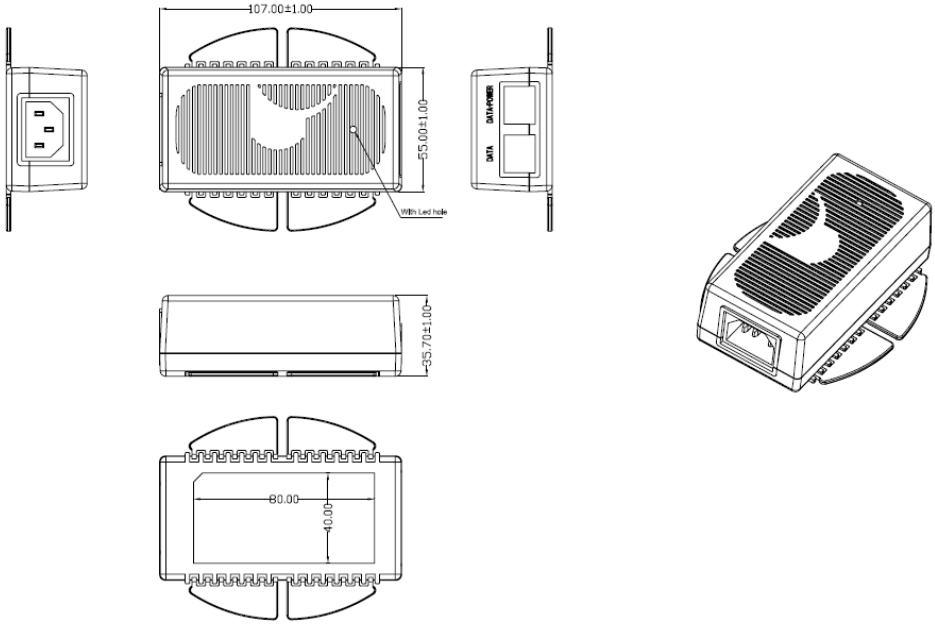
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| | Model No. GT-96180-1830-T3-PP | |
| | Part No./Ordering No. GT-96180-1830-T3-PP | Rev C |

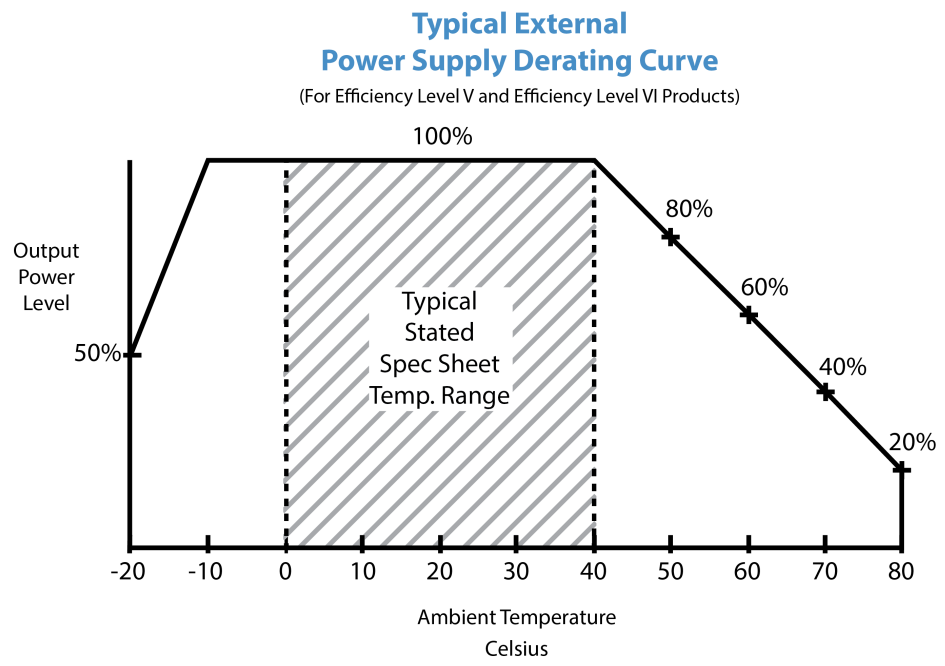
3D File Download https://www.globtek.com/dl/GT-96180-WWVV-T3-PP.stp

Mechanical drawing




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DERATING CURVE





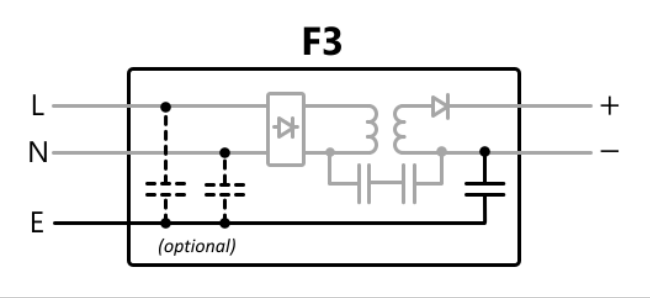
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## INPUT CONFIGURATION

(F3) Floating output, capacitor between output common and functional earth

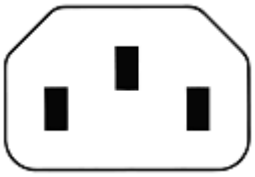



Alternate grounding configurations available upon request.

Blades/Cord Included:N/A:Not Applicable

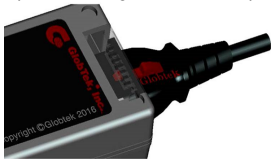
Blades/Cord Installed:N/A:Not Applicable

T3 Inlet (IEC 60320/C14)
IEC 60320/C14 AC Inlet Connector, Class I, Earth Ground



Mates with IEC 60320/C13 Plug

Optional Locking IEC60320 Receptable and cord option available on some models by request.:



## Standard International IEC 320/C13 Cordsets

Below are standard cordsets which are "not included" (unless stated above); these can be purchased separately or packaged with the power supply. Contact your Sales Engineer if the style required is not shown below. Many more available in different lengths, colors or cable material.


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Model No. GT-96180-1830-T3-PP

Part No./Ordering No. GT-96180-1830-T3-PP — Rev C

## Stock Power Supply Cords

| Part Number/ Link | Country | Plug | Termination | Length (mm) | (Ft) |
|---|---|---|---|---|---|
| 3021457F701(R) | N. American (Type B) | NEMA 5-15P | IEC 320/C13 | 2150 | 7 |
| 1191068F0701(R) | N. American (Type B) | NEMA 5-15P Hospital | IEC 320/C13 | 2459 | 8 |
| 2194272M5701-T(R) | Argentina (Type I) | IRAM 2073 | IEC 320/C13 | 2500 | 8 |
| 5502022M5701A(R) | Australian (Type I) | AS3112 / 3 PRONG | IEC 320/C13 | 2500 | 8 |
| 204B4272M5701(R) | Brazil (Type N) | BRAZIL | IEC 320/C13 | 2500 | 8 |
| 6023602M5701(R) | China (Type I) | CCC GR2099 | IEC 320/C13 | 2500 | 8 |
| G8014272M5701(R) | Danish (Type K) | AFSNIT SECTION 107-2-D1 | IEC 320/C13 | 2500 | 8 |
| 23144272M5701-T(R) | Europe (Type E) | CEE 7/7 | IEC 320/C13 | 2500 | 8 |
| 23134272M5701EUKR(R) | Europe/Korea Combo (Type E) | CEE 7/7 / KSC8305 | IEC 320/C13 | 2500 | 8 |
| 205IN4272M5701(R) | India (Type D) | India IS 1293 (also known as IA16A3 or BS546) | IEC 320/C13 | 2500 | 8 |
| 208IN4272M5701(R) | India (Type M) | India IS 1293 (also known as IA16A3 or BS546) | IEC320/C13 | 2500 | 8 |
| 377C4272M5701(R) | Israel (Type H) | ISL 377C | IEC 320/C13 | 2500 | 8 |
| 23024272M5701(R) | Italy (Type L) | CEI 23-16/VII | IEC 320/C13 | 2500 | 8 |
| 3003339F701(R) [3x1.25mm2]<br>3003068F2701-HK(R) [3 x 2.0mm2] | Japan (Type B) | JIS 8303 / 3 PINS | IEC 320/C13 | 2500 | 8 |
| 302J115J6F0701J(R) | North America / Japan (Type B – 12A) | NEMA 5-15P (cULus approved), Japan JIS C 8303 (PSE Approved) | IEC 320/C13 | 1830 | 6 |
| 302J104J6F0701J(R) | North America / Japan (Type B – 15A) | NEMA 5-15P (cULus approved), Japan JIS C 8303 (PSE Approved) | IEC 320/C13 | 1830 | 6 |
| 302JT104J9F0701JT(R) | North America / Japan / Taiwan (Type B – 15A) | NEMA 5-15P (cULus approved), Japan JIS C 8303 (PSE Approved), Taiwan CNS 6797 (BSMI Approved) | IEC 320/C13 | 2800 | 9 |
| 2313K3432M5701(R) | Korea (Type F) | KS C 8305 | IEC 320/C13 | 2500 | 8 |
| 5804272M5701(R) | Russia (Type F) | GOST 7396 | IEC 320/C13 | 2500 | 8 |
| 2084272M5701(R) | South Africa (Type M) | South Africa SABS164-1 (16A type) | IEC 320/C13 | 2500 | 8 |
| 23214272M5701(R) | Switzerland (Type J) | SEV 1011 | IEC 320/C13 | 2500 | 8 |
| 3003322M5701(R) | Taiwan (Type B) | BSMI | IEC 320/C13 | 2500 | 8 |
| 6363762M5701(R) | Thailand (Type O) | TIS 166-2549 | IEC 320/C13 | 2500 | 8 |
| PZ0800100-2M5BK13H(R | UK, Hong Kong,Singapore, Gulf States (Type G) | BS 1363A | IEC 320/C13 | 2500 | 8 |
| 7055002M5701A(R) | International | IEC 320 C14-C13 | IEC 320/C13 | 2500 | 8 |

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| Part No./Ordering No. GT-96180-1830-T3-PP | Rev C |

OUTPUT CORD AND CONNECTOR: None/C0745

ACTUAL CONNECTORS, OVERMOLDS, FERRITES MAY VARY SLIGHTLY FROM THE PICTURE BELOW

| | |
|---|---|
| CABLE TYPE | N/A |
| CABLE LENGTH (mm) | N/A |
| CABLE TOLERANCE (mm) | N/A |
| WIRE GAUGE (AWG) | N/A |
| CONDUCTORS | |
| HANK DIMENSION (mm) | N/A |
| CABLE / CONNECTOR OVERMOLD COLOR | N/A |
| FERRITE TYPE AND DIMENSION | None |
| FERRITE NUMBER OF TURNS(Definition) | N/A |
| FERRITE DIMENSION FROM STRAIN RELIEF | N/A |
| FERRITE DIMENSION FROM PLUG | N/A |
| PLUG TYPE | None |
| OVER MOLD ORIENTATION | N/A |
| CONNECTOR PIN OUT | PoE injector wiring Data, Data+Power, RJ45 x 2 |

ADDITIONAL OUTPUT PLUG OPTIONS ARE AVAILABLE AT https://www.globtek.com/en/connectors
STANDARD PLUGS AND CONNECTORS CAN BE SEEN ONLINE AT https://www.globtek.com/en/connectors
CALCULATE VOLTAGE REGULATION/DROP WITH OUR ONLINE CALCULATOR: https://www.globtek.com/r2/PtqjjL

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| Model No. GT-96180-1830-T3-PP | |
| Part No./Ordering No. GT-96180-1830-T3-PP | Rev C |

## OUTPUT CONNECTOR HOOK UP

TO ADDRESS SYSTEM-LEVEL EMI CONCERNS, FERRITE CHOKES/BEADS MAY BE ADDED/REVISED UPON REQUEST. A SAMPLE KIT OF GLOBTEK'S STANDARD FERRITES IS AVAILABLE UNDER GLOBTEK P/N: EMI-MITIGATION-KIT1

FOR ADDITIONAL INFORMATION, PLEASE READ OUR WHITE PAPER AT:
https://www.globtek.com/en/technical-articles/ferrite-kit-radiated-emi-suppression-kit-for-globtek-power-supplies-cable-assemblies

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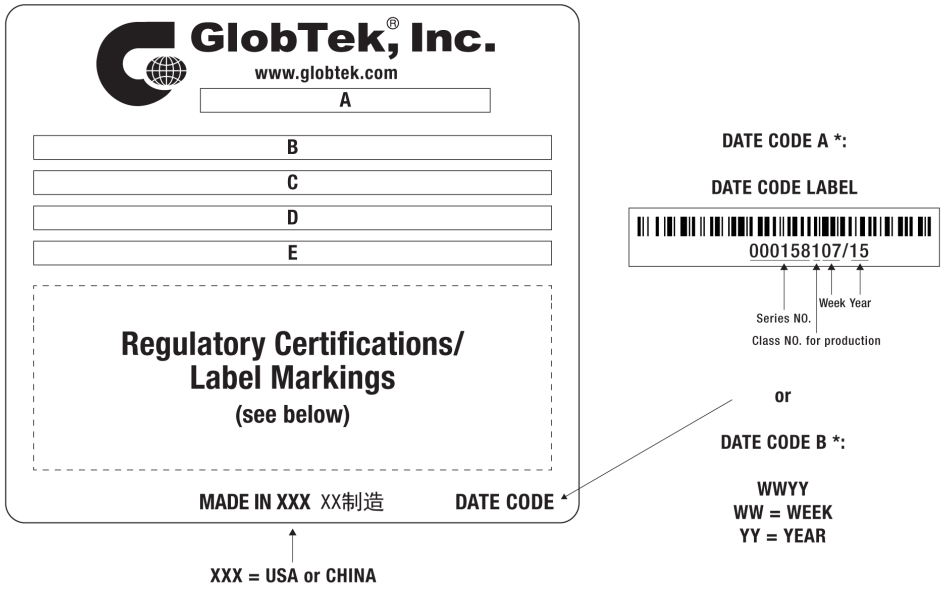
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| Model No. GT-96180-1830-T3-PP | |
| Part No./Ordering No. GT-96180-1830-T3-PP | Rev C |

LABEL:L-1186

| | |
|---|---|
| LABEL P/N | Standard GT |
| MATERIAL | Flat Thermal Transfer, Imprintable, Polyester Label and/or Pad Printed and/or Molded, and/or Laser Engraved in the case |
| BACKGROUND COLOR | Black if housing is Black, White or Silver if housing is White or Gray. |
| TEXT COLOR | White or Silver if label is Black Background for Black housing. Black if label is White or Silver background and Housing is White or Gray. |
| LABEL WIDTH (mm) | 40 |
| LABEL HEIGHT (mm) | 80 |
| SPECIAL BARCODE LABEL MATERIAL | No |

Below is the minimum information which will appear on the label. NOTE: in the logo area additional/actual positioning of symbols and text is subjected to change as per agency updates/requirements or additional model approvals become available.
Regulatory certifications/label markings may be in logo area on the label or molded into the case housing outside the label area.
Information will be shown via label and/or pad printed and/or molded and/or laser engraved in the case. * Date code markings at GlobTek option
.




A=PoE, Passive Power Injector
B=P/N: (料号) GT-96180-1830-T3-PP
C=Model (型号) GT-96180-1830-T3-PP
D=Input (输入)100-240V~, 50-60 Hz, 0.6A
E=Output (输出)30.0 V ⎓ 0.6 A, 18.00W

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|---|---|
| AGENCY ONLINE DOCUMENTS | http://www.globtek.info/certs/GT-96180-POE/ |
| CE EC-Declaration for Medical | Contact GlobTek for more information |
| CE EC-Declaration for Industrial/Commercial/ITE | https://cs.globtek.info/ec_declaration_product?id=01ta0000007dRJw&i=2 |
| CE EC-Declaration for Household | Contact GlobTek for more information |
| UKCA-Declaration for Medical | Contact GlobTek for more information |
| UKCA-Declaration for Industrial/Commercial/ITE | https://cs.globtek.info/ukca_declaration_product?id=01ta0000007dRJw&i=2 |
| UKCA-Declaration for Household | Contact GlobTek for more information |
| Morocco SDoC Declaration | https://cs.globtek.info/Morocco_SDoC_Declaration?id=a0Oa000000OJPEFEA5 |
| RoHS/RoHS3 Declaration | https://www.globtek.com/pdf/rohs_cert/01ta0000007dRJwAAM |
| REACH Declaration | https://www.globtek.com/pdf/iso_certificates/REACH.pdf |
| Conflict Minerals Declaration | https://www.globtek.com/pdf/conflict-minerals.pdf |
| Prop 65 Statement | https://www.globtek.com/prop-65-statement.pdf |

IPXY rating is based on 3rd party testing and customers should check suitability and test system level IPXY rating before ordering.

## Regulatory Certifications/Label Markings

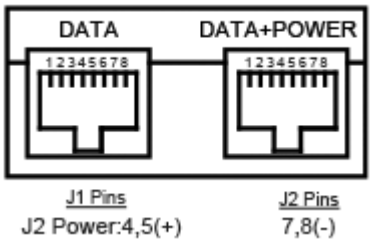
Below follows a link to the latest regulatory certifications and marks for this specific product. National standards as well as certification schemes are constantly changing and so is the set of certification marks and symbols applicable to this product. Various standards, marks and symbols, and certificates are subject to change at any time without notice.

Additional standards or unique country certifications are available upon request. Please contact Globtek to request a quotation.

| | |
|---|---|
| LATEST PRODUCT/MODEL CERTIFICATIONS: | https://www.globtek.com/ds/6CCoSujMrdM/tUsjMAE6QuZ.html |
| AGENCY ONLINE DOCUMENTS | http://www.globtek.info/certs/GT-96180-POE/ |



(F3) Floating output, capacitor between output common and functional earth




PoE injector wiring Data, Data+Power, RJ45 x 2

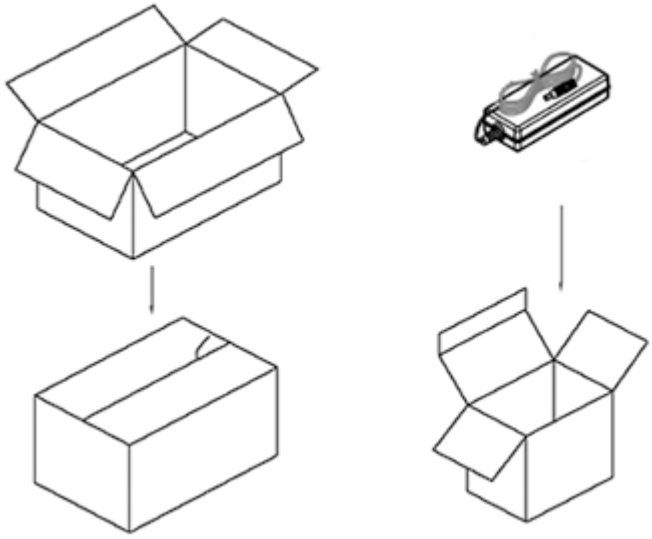

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## PACKAGING

| | |
|---|---|
| Packing Spec P/N | Standard DT, Individually Box |
| Packing Quantity/Multiple/MPQ | 60 |
| Gift Box Size (mm) | 125*105*43 |
| Gift Box Color | White |
| Master Carton Size (mm) | 442 x 330 x 275 |
| Master Carton Cubic Volume ($m^3$) | 0.04 |
| Master GW (Kg) | kg |
| BLADES INCLUDED | N/A: Not Applicable |
| BLADE/CORD INSTALLED | N/A: Not Applicable |
| USER MANUAL* | |
| USER MANUAL WEB LINK | |

* This specification sheet is considered the user manual for all applications. It is expected that the buyer of this product will use it to formulate their own user manual for their end product and a user manual specifically for the power adapter is not usually required. If a user manual is not specifically listed above then none will be provided with this unit.

If specific packaging is required, this section must specify all requirements and note “no exceptions”. If this section does not specify packaging, it is subject to change without notice at GlobTek’s discretion




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## INSTRUCTIONS TO THE OEM SYSTEMS ENGINEER

It is the responsibility of the OEM systems engineer to provide the end system user instructions and warnings for the use of this product in the end system.

If an input cord is required for this product, AC Mains voltage should be provided to the power supply by a power supply cord approved to the national standards of the country in which it will be used.

This product is not designed to be repaired. No serviceable parts inside. A blown internal fuse is an indication of catastrophic failure of circuit component(s). If a Failure Analysis is required for a failed power supply/battery charger, please return the damaged unit to GlobTek for an accurate determination of the root cause of the failure.

EMC Compliance of the complete OEM product, including the GlobTek power supply/battery charger needs to be verified by the OEM systems engineer.


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## INSTRUCTION SHEET

N/A

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