

GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GT-96180-1856-T3-AP, PoE, Active Power Injector, Efficiency Level: VI, 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: 18W, 56V@0.32A, Output Configuration: N/A mm, N/A Cond, N/A, None, Ferrite: None, N/A, GT Cord # C0745, Pin Out: PoE injector wiring Data, Data+Power, RJ45 x 2, Blades/Input Cord: Not Applicable, Approvals: CB 62368; EAC; Level VI; ETL; S-Mark 60950; CB 60335; WEEE; VCCI; RoHS; PSE; China RoHS; CE;	
	Model No. GT-96180-1856-T3-AP	
	Part No./Ordering No. GT96180-1856T3-APOE	Rev E

## REVISION HISTORY

REV	DESCRIPTION	SUB	DATE	APPROVED
E	Update grounding from E1 to F3	QA	04/02/2019	QA
D	Update individual box size 125x105x43 mm to egg crate packaging, add grounding configuration	QA	10/17/2018	QA
C	Update approvals: add EAC , RoHS2 to RoHS	QA	07/06/2018	QA
B	Changed Part # to GT96180-1856T3-APOE	sorec	02/07/2017	QA
A	Initial Release	sorec	06/15/2016	QA

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/>

### 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:

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 (<https://en.globtek.com/terms-and-conditions/>).

### Footnote:

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 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.

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**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: 18.0  
VOLTS OUT: 56  
CURRENT OUT (Amps): 0.32  
BLADE/CORD INCLUDED: N/A  
BLADE/CORD INSTALLED: N/A  
INGRESS PROTECTION:  
GROUNDING CONFIGURATION: (F3) Floating output/Isolated Common by Capacitor  
EFFICIENCY LEVEL: VI  
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, Cellular packaging, User manual  
USER MANUAL: 809-DESKTOPUSERMANUAL

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

DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE.

**PROPRIETARY INFORMATION**

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## ELECTRICAL SPECIFICATIONS

GlobTek's GT-96180-1856 Active Power over Ethernet Midspan Injector offers cost effective and reliable solution for remote powering of Wireless LAN Access Points, Voice over IP phones, Security Cameras, RFID readers and other IP terminals up to 18 Watts over existing network infrastructure. This Injector is configured to provide up to 18watts of power per port over two pairs in compliance with IEEE 802.3af standard.

The GT-96180-1856 Active PoE Injector is designed to function with and provide power to any IEEE 802.3af compliant PoE device.

### MAIN FEATURES

- Withstands high energy EMI Immunity events without going into latched shutdown state
- Enhanced 18W output power capability
- IEEE 802.3af Detection, Disconnect and Overload Protection
- LED User Interface for Power Good and Fault Conditions
- Compliant to PoE+, 10/100/1000 BaseT Data Rates
- Universal Input Power from 100Vac to 240Vac
- Unique Patented 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

- VoIP Phones
- VoIP Phone with Video
- Wireless Access Points
- Bluetooth Access Points
- Multi-Band Wireless Access Points
- 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
- PDAs
- Digital Time clock

### A) ELECTRICAL SPECIFICATIONS:

#### INPUT

Input Range: 90-264 Vac (85-264Vac @ 85% of rated output power)

Input Line Frequency: 47-63Hz

Input Current:< 0.6A RMS @ 90Vac Full Load

Inrush Current: 60A Typical, Cold Start @ 25°C at 230Vac

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No load power < 100mW  
Efficiency: >85%, 4 Point Avg Efficiency  
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  
Leakage current: <100uA  
Isolation: 3000VAC

#### OUTPUT

Number of Ports: One

Data Rates: Compliant to PoE+, 10/100/1000 Mb/s Ethernet Speed

Power Injection Method: For IEEE 802.3af Midspan, 4&5 for V+ and 7&8 for Common

Port Voltage: 56Vdc nom at pins 4&5 to 7&8

Port Current: 0 to 320mA max for pins 4&5 to 7&8

Port Power: 18W max from pins 4&5 to 7&8

Port Voltage Regulation: Complies with IEEE 802.3af requirements

Port Voltage Ripple: Complies with IEEE 802.3af requirements

Port Voltage Transient Performance: Complies with IEEE 802.3af requirements

Port Overload Protection: Complies with IEEE 802.3af Requirements. Output will shutdown during overload and auto recover when overload is removed.

Port Short Circuit Protection: Complies with IEEE 802.3af Requirements. Output will shutdown during short circuit and auto recover when short is removed.

Port Power Disconnection Method: Automatic Disconnect if < 10mA minimum load detected per IEEE 802.3af standard.

User Interface: Green LED Status Indicator, States as Follows:

No Light: No Powered Device detected at end of ethernet cable

Flashing at 1.5Hz: Detection (hand-shaking) in-Process, with Powered Device

Continuous Light: Good Connection with Powered Device

Flashing at 10Hz: Over Current Condition

#### ENVIRONMENTAL

Temperature: Operating, -10C to 40C

Storage, -30C to 80C

Humidity: 0% to 95% Relative Humidity, Non-Condensing

Altitude: Operating, Up to 5000M

#### MECHANICALS / ENCLOSURE

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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: Complies with FCC Class B Part 15, EN55022 Class B

Immunity: Complies with the following;

EN61000-6-2 (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)

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

#### REGULATORY COMPLIANCE

Compliant Safety Standards: See listings at end of this drawing for specifics

IEEE 802.3af: Product tested per the requirements of IEEE 802.3af

INTEROPERABILITY: Product's interoperability performance verified with various third party PoE enabled systems. See table below.

#### SPECIAL OPTIONS

1. Custom Markings
2. High Rel PCB laminate with Plated through Holes for IPC610 Class 2 Compliance
3. Special Housing Color
4. 48V or 54V Output Voltage, contact factory for availability
5. Reduced output power rating

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## 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	14W
PowerDSine PD-AS-701/12	12V, at type	24W	
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

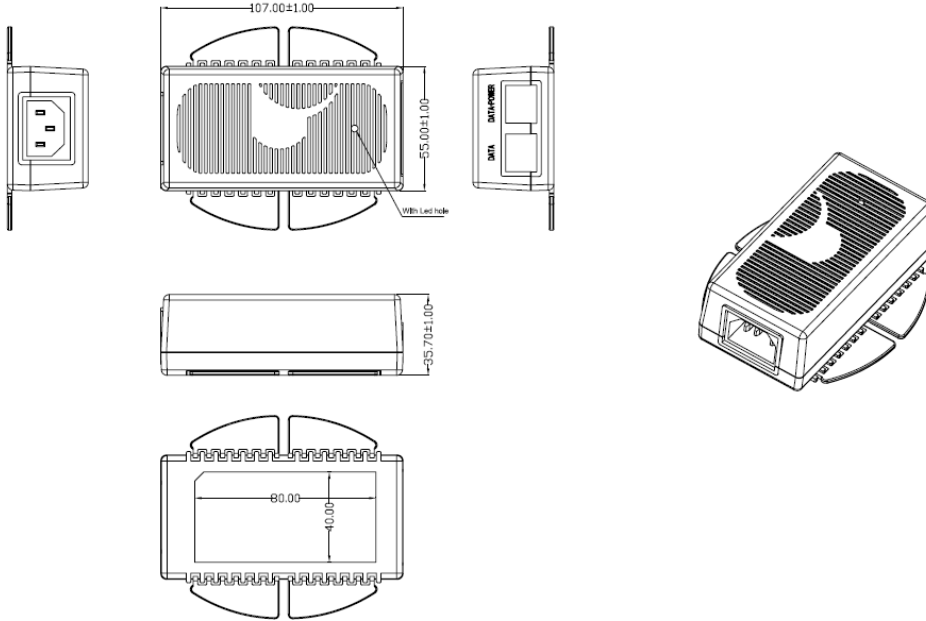
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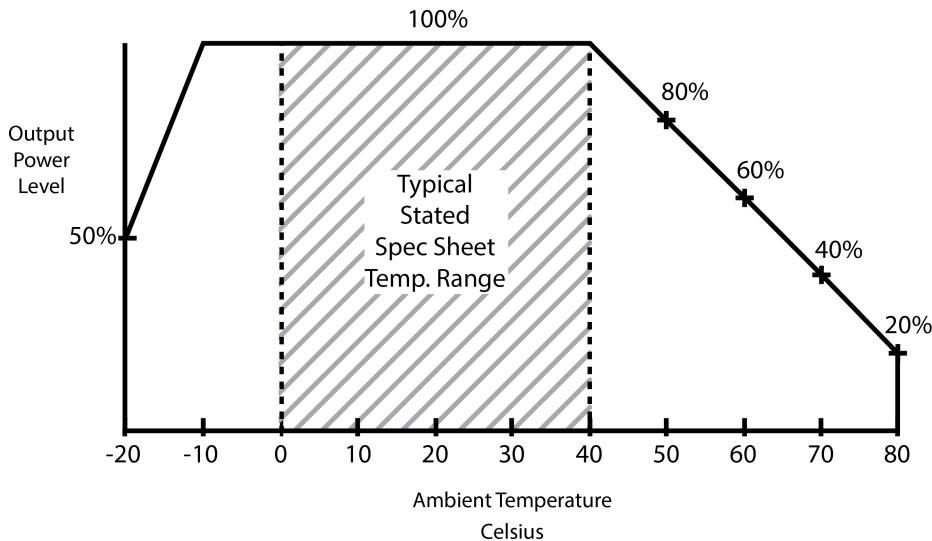
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DERATING CURVE

**Typical External  
 Power Supply Derating Curve**

(For Efficiency Level V and Efficiency Level VI Products)



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Model No. GT-96180-1856-T3-AP

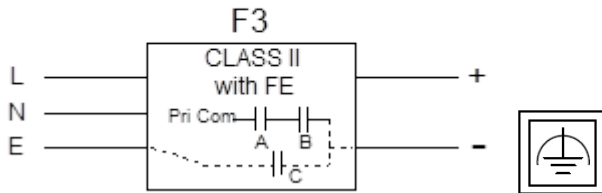
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Rev E

## INPUT CONFIGURATION

(F3) Floating output/Isolated Common by Capacitor

GTM21089, GTM21097 and  
 GTM961600 Optional Config

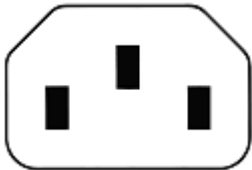


[Alternate grounding configurations](#) available upon request.

Blades/Cord Included:N/A:

Blades/Cord Installed:N/A:

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



Mates with IEC 60320/C13 Plug

Optional Locking IEC60320 Receptacle 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.

## Stock Power Supply Cords

				Length	

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Part Number/ Link	Country	Plug	Termination	(mm)	(Ft)
<a href="#">3021457F701(R)</a>	N. American (Type B)	NEMA 5-15P	IEC 320/C13	2150	7
<a href="#">1191068F0701(R)</a>	N. American (Type B)	NEMA 5-15P Hospital	IEC 320/C13	2459	8
<a href="#">2194272M5701-T(R)</a>	Argentina (Type I)	IRAM 2073	IEC 320/C13	2500	8
<a href="#">5502022M5701A(R)</a>	Australian (Type I)	AS3112 / 3 PRONG	IEC 320/C13	2500	8
<a href="#">204B4272M5701(R)</a>	Brazil (Type N)	BRAZIL	IEC 320/C13	2500	8
<a href="#">6023602M5701(R)</a>	China (Type I)	CCC GR2099	IEC 320/C13	2500	8
<a href="#">G8014272M5701(R)</a>	Danish (Type K)	AFSNIT SECTION 107-2-D1	IEC 320/C13	2500	8
<a href="#">23144272M5701-T(R)</a>	Europe (Type E)	CEE 7/7	IEC 320/C13	2500	8
<a href="#">205IN4272M5701(R)</a>	India (Type D)	India IS 1293 (also known as IA16A3 or BS546)	IEC 320/C13	2500	8
<a href="#">208IN4272M5701(R)</a>	India (Type M)	India IS 1293 (also known as IA16A3 or BS546)	IEC320/C13	2500	8
<a href="#">377C4272M5701(R)</a>	Israel (Type H)	ISL 377C	IEC 320/C13	2500	8
<a href="#">23024272M5701(R)</a>	Italy (Type L)	CEI 23-16/VII	IEC 320/C13	2500	8
<a href="#">3003339F701(R)</a> [3x1.25mm2]	Japan (Type B)	JIS 8303 / 3 PINS	IEC 320/C13	2500	8
<a href="#">3003068F2701-HK(R)</a> [3 x 2.0mm2]					
<a href="#">302J115J6F0701J(R)</a>	Japan / North America (Type B – 12A)	JIS 8303 / 3 PINS and NEMA 5-15P (PSE and UL/CUL appr)	IEC 320/C13	1830	6
<a href="#">302J104J6F0701J(R)</a>	Japan / North America (Type B – 15A)	JIS 8303 / 3 PINS and NEMA 5-15P (PSE and UL/CUL appr)	IEC 320/C13	1830	6
<a href="#">2313K3432M5701(R)</a>	Korea (Type F)	KS C 8305	IEC 320/C13	2500	8
<a href="#">5804272M5701(R)</a>	Russia (Type F)	GOST 7396	IEC 320/C13	2500	8
<a href="#">205SA4272M5701(R)</a>	South Africa (Type D)	South Africa SABS164-1 (6A type)	IEC 320/C13	2500	8
<a href="#">2084272M5701(R)</a>	South Africa (Type M)	South Africa SABS164-1 (16A type)	IEC 320/C13	2500	8
<a href="#">23214272M5701(R)</a>	Switzerland (Type J)	SEV 1011	IEC 320/C13	2500	8
<a href="#">3003322M5701(R)</a>	Taiwan (Type B)	BSMI	IEC 320/C13	2500	8
<a href="#">PZ0800100-2M5BK13H(R)</a>	UK, Hong Kong, Singapore, Gulf States (Type G)	BS 1363A	IEC 320/C13	2500	8
<a href="#">7055002M5701A(R)</a>	International	IEC 320 C14-C13	IEC 320/C13	2500	8



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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: No

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, Active Power Injector  
 B=P/N: (料号) GT96180-1856T3-APOE  
 C=Model (型号) GT-96180-1856-T3-AP  
 D=Input (输入) 100-240V~, 50-60 Hz, 0.6A  
 E=Output (输出) 56 V 0.32 A, 18.0W

AGENCY ONLINE DOCUMENTS <http://www.globtek.info/certs/GT-96180-POE/>  
 CE EC-Declaration for Medical [Contact GlobTek for more information](#)

GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GT-96180-1856-T3-AP, PoE, Active Power Injector, Efficiency Level: VI, 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: 18W, 56V@0.32A, Output Configuration: N/A mm, N/A Cond, N/A, None, Ferrite: None, N/A, GT Cord # C0745, Pin Out: PoE injector wiring Data, Data+Power, RJ45 x 2, Blades/Input Cord: Not Applicable, Approvals: CB 62368; EAC; Level VI; ETL; S-Mark 60950; CB 60335; WEEE; VCCI; RoHS; PSE; China RoHS; CE;	
	Model No. GT-96180-1856-T3-AP	
	Part No./Ordering No. GT96180-1856T3-APOE	Rev E

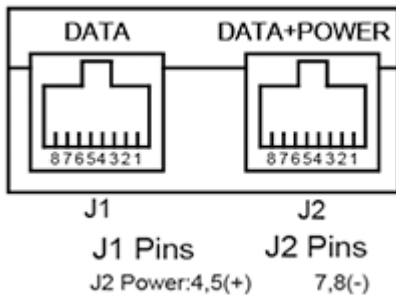
CE EC-Declaration for Industrial/Commercial/ITE [http://globtek.force.com/models/ec\\_declaration?id=a0Oa000000Mj4cSEAR](http://globtek.force.com/models/ec_declaration?id=a0Oa000000Mj4cSEAR)  
 CE EC-Declaration for Household [Contact GlobTek for more information](http://www.globtek.com/pdf/rohs_cert/01ta0000006x4XmAAI)  
 RoHS/RoHS3 Declaration [https://www.globtek.com/pdf/rohs\\_cert/01ta0000006x4XmAAI](https://www.globtek.com/pdf/rohs_cert/01ta0000006x4XmAAI)  
 REACH Declaration [https://www.globtek.com/pdf/iso\\_certificates/REACH.pdf](https://www.globtek.com/pdf/iso_certificates/REACH.pdf)  
 Conflict Minerals Declaration <https://www.globtek.com/pdf/conflict-minerals.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

LATEST PRODUCT/MODEL CERTIFICATIONS: <http://en.globtek.com/datasheet/id/a0Oa000000Mj4cS>  
 AGENCY ONLINE DOCUMENTS: <http://www.globtek.info/certs/GT-96180-POE/>



(F3) Floating output/Isolated Common by Capacitor



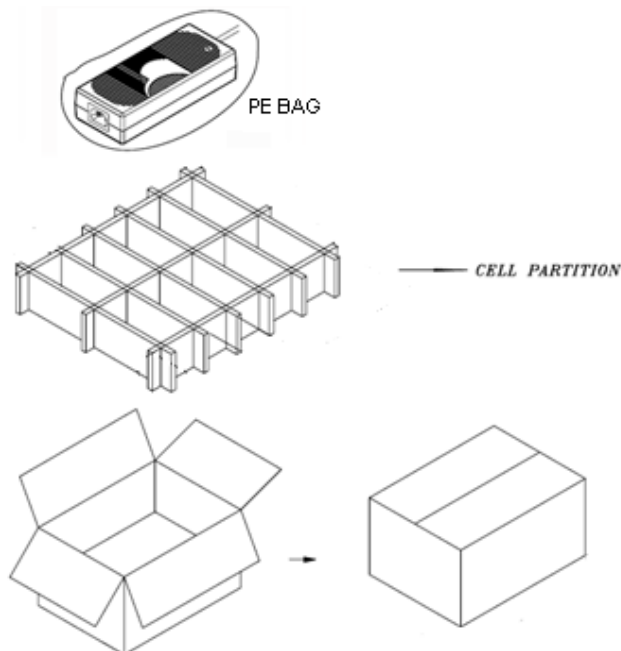
PoE injector wiring Data, Data+Power, RJ45 x 2

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	Model No. GT-96180-1856-T3-AP	
	Part No./Ordering No. GT96180-1856T3-APOE	Rev E

## PACKAGING

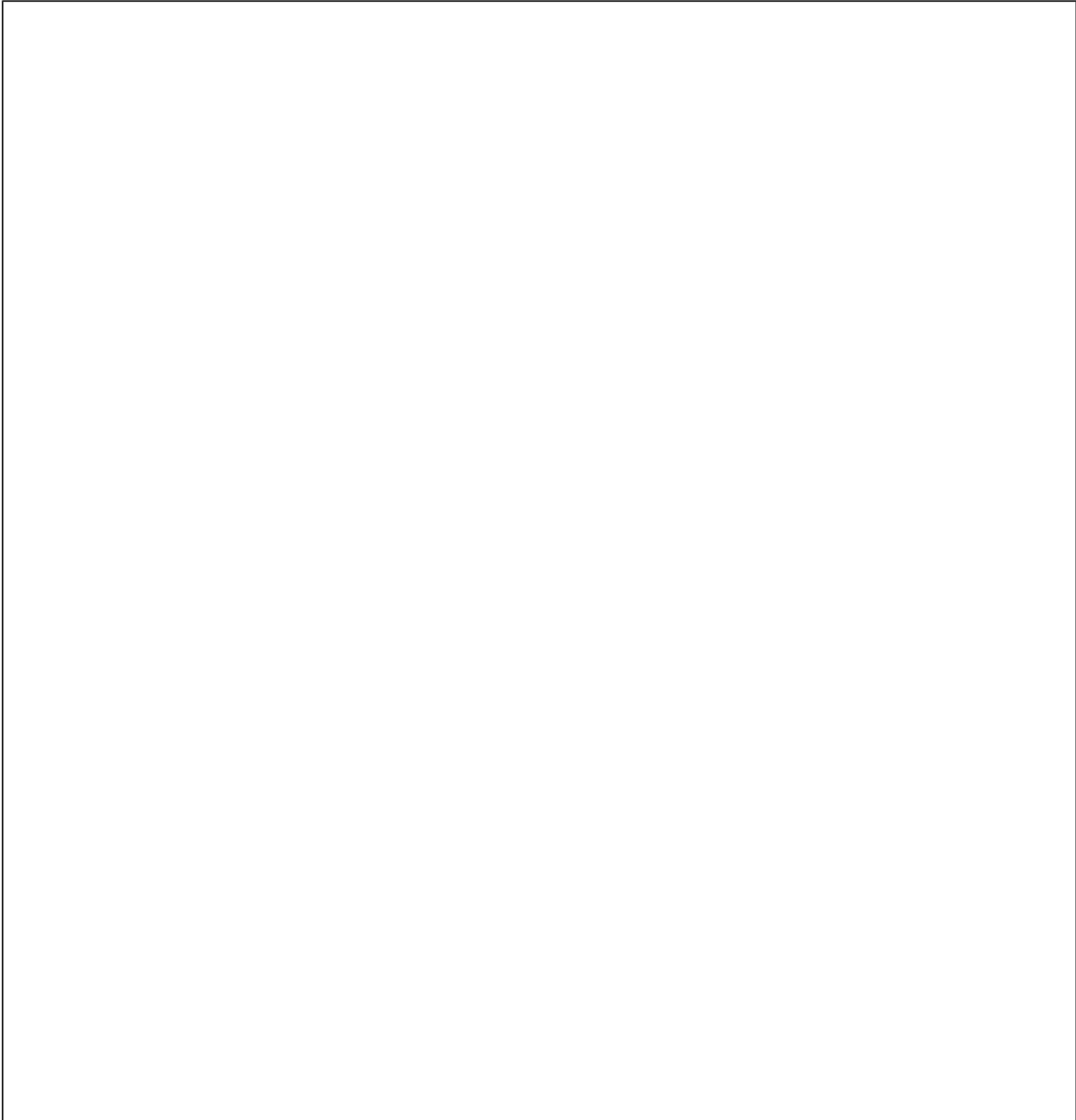
Packing Spec P/N:	Standard DT, Cellular packaging, User manual
Box Qty:	60
Gift Box Size (mm):	egg crate
Gift Box Color:	None
Master Carton Size (mm):	426 x 475 x 392
Master Carton Cubic Volume (m <sup>3</sup> ):	0.08
Master GW (Kg):	kg
BLADES INCLUDED:	N/A:
BLADE/CORD INSTALLED:	N/A:
USER MANUAL:	809-DESKTOPUSERMANUAL
USER MANUAL WEB LINK:	<a href="https://en.globtek.com/pdf/809-DESKTOPUSERMANUA...">https://en.globtek.com/pdf/809-DESKTOPUSERMANUA...</a>

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.



### PROPRIETARY INFORMATION

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	<p>Model No. GT-96180-1856-T3-AP</p>
	<p>Part No./Ordering No. GT96180-1856T3-APOE</p>
	<p>Rev E</p>



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	Model No. GT-96180-1856-T3-AP	
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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 power supply 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.

## INSTRUCTION SHEET

N/A