

GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GT-96600-7056-T3-AP, ITE Power Supply, 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: 70W, 56V@1.25A, Output Configuration: N/A mm, N/A/ Cond, N/A, 2 x RJ-45 Jacks mounted in 94V-0 enclosure per IEEE 802.3af configuration, Ferrite: None, GlobTek Black, GT Cord # C1675, Pin Out: PoE injector wiring Data, Data+Power, RJ45 x 2, Blades/Input Cord: (Order Separately), Approvals: ETL; Patent US9838207B2; EAC; South Africa; CE; China RoHS; Class I; RoHS; Ukraine; VCCI; WEEE; Level VI; S-Mark 60950; CB 60950; EAC;	
	Model No. GT-96600-7056-T3-AP	
	Part No./Ordering No. GT966007056-T3-APOE	Rev C

REVISION HISTORY

REV	DESCRIPTION	SUB	DATE	APPROVED
C	Update packaging from gift box to egg crate.		05/19/2017	QA
B	Add diagram to the deviation		04/24/2017	QA
A	Initial release.		10/13/2016	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.

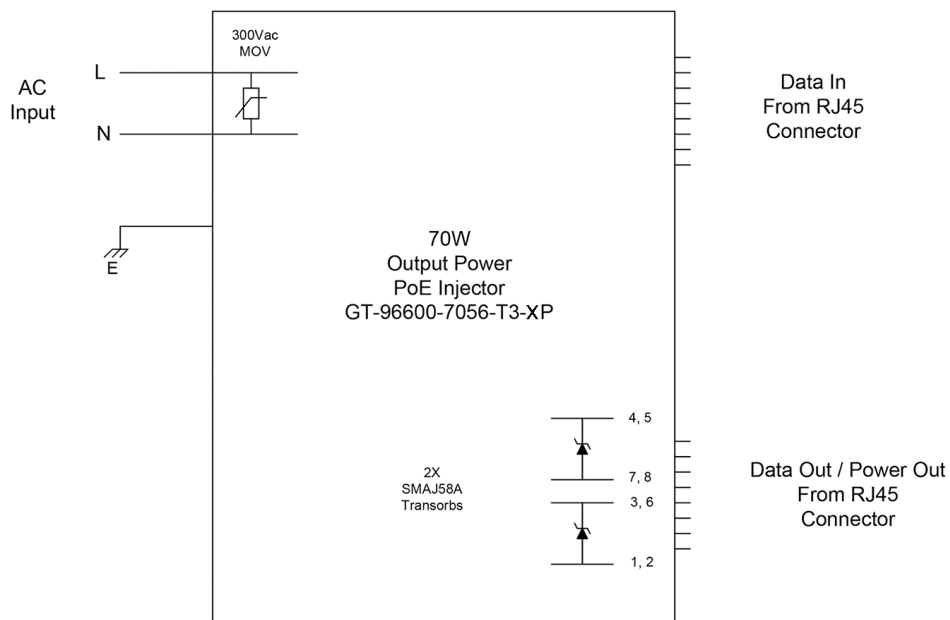
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POWER SUPPLY INFORMATION

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, 2.0A
INPUT CONFIG:	IEC 60320/C14
WATTS:	70.0
VOLTS OUT:	56
CURRENT OUT (Amps):	1.25
BLADE/CORD INCLUDED:	None
BLADE/CORD INSTALLED:	None
INGRESS PROTECTION:	
GROUNDING CONFIGURATION:	(E1) Earthed output
EFFICIENCY LEVEL:	VI
OUTPUT CONFIGURATION:	N/A mm, N/A/ Cond, N/A, 2 x RJ-45 Jacks mounted in 94V-0 enclosure per IEEE 802.3af configuration, Ferrite: None, GlobTek Black, GT Cord # C1675
CONNECTOR PIN OUT:	PoE injector wiring Data, Data+Power, RJ45 x 2
LABEL SPECS:	Standard GT,L-1186
SPECIAL BARCODE LABEL	
MATERIAL:	
PACK SPEC:	Standard DT, Cellular packaging, User manual
USER MANUAL:	809-DESKTOPUSERMANUAL on A4 paper

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

Diagram of the lightning protection:



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DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE.

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ELECTRICAL SPECIFICATIONS

GlobTek's GT-96600-7056 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 70 Watts over existing network infrastructure. GlobTek PoE Midspan Injector is configured to provide 70 watts of power over four pairs in compliance with IEEE 802.3 -2012 standard. When the load device is connected, GlobTek's PoE Midspan will automatically source output power, while maintaining safety in the ethernet cabling.

. GlobTek's Universal PoE Midspan Injector is designed to function with and provide power to any IEEE 802.3-2012 compliant PoE devices.

MAIN FEATURES

- Provides 10/100/1000 BaseT Data Rates
- Green Design: Compliant to DoE Efficiency level VI requirement
- Universal Input Power from 100Vac to 240Vac
- Full Protection for Over Voltage and Current
- Compact 164 x 55 x 35 mm
- LED User Interface for Power Good and Fault Conditions

APPLICATIONS

- High Power use, PoE powered equipment
- 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

ELECTRICAL SPECIFICATIONS:

INPUT

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

Input Line Frequency: 47-63Hz

Input Current:< 2A RMS @ 90Vac Full Load

Inrush Current: 30A max, Cold Start @ 25°C at 230Vac

No load Power: < 210mW

Efficiency: >88%, 4 Point Avg efficiency.

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Turn on-delay: 1 Second Typical @ 115Vac

Input Line Surge/Lightning Protection: 10mm dia, 300Vac MOV protected, 3500A pk current rated

Hold-up time: 8ms typical at nominal input voltage and full load

Leakage current: <100uA

Isolation: 3000 VAC

OUTPUT

Pass Through Data Rates: 10/100/1000 Mbits/second Ethernet Speed

Power Injection: Midspan, On all 4 pairs,

Channel 1: 4&5 for V+ and 7&8 for V-

Channel 2: 3&6 for V+ and 1&2 for V-

Output Voltage: 56Vdc Nominal, 57V max, 54V min

Output Current: 1.24A Total, (620mA maximum each for Power Channels 1 and 2)

Output Ripple: 100mVpp max

Output Overload and Short Circuit Protection: Meets IEEE 802.3-2012 Requirements. Channels will shutdown during overload and auto recover when overload is removed.

Output Line Lighting Protection: 2X SMAJ58A Transient Surge Protection, per 802.3 standard

Port Power Disconnection Method: DC Disconnect. 10mA minimum load required to maintain Vport

User Interface: Green LED for Vport Valid, Flashes when Fault is detected

ENVIRONMENTAL

Temperature: Operating, -10C to 40C

Storage, -30C to 80C

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

Altitude: Operating, Up to 5000M

MECHANICALS

Dimensions: 164 x 55 x 35 mm

Weight: 0.59 lb, 264 gr.

AC Input Connector: IEC 320 Inlet, C14, C8, C6 or C18 Style

Data and Data+Power Connector: Fully Shielded RJ45

EMISSIONS and IMMUNITY

Emission: Designed to meet FCC Class B Part 15, EN55022 Class B

Immunity: Designed to meet the following;

EN 61000-4-2 ESD

EN 61000-4-3 Radiated Immunity

EN 61000-4-4 EFT

EN 61000-4-5 Surge

EN 61000-4-6 Conducted Susceptibility

EN 61000-4-11 Voltage Dips and Interrupts

EN 61000-3-2 Harmonics, Class A

SAFETY APPROVALS

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

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

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SPECIAL OPTIONS

1. Custom Markings
2. Reduced output power rating
3. High Rel PCB laminate with Plated through Holes for IPC610 Class 2 Compliance
4. Special Housing Colors

70W PoE Injector, Ethernet InterOperability and Compatibility Testing

Injector tested: *Model GT-96600-7056*, rated 70W output, 56Vdc, IEEE802.3-2012 Compliant

Note, assuming 80% eff splitter, max Pout = 56W (56/70 = 0.8)

Splitter Model	Splitter Description	P/F	Notes:
Globtek GT-91087	5V, af Type	P	Low power type, tested at 7.5W load
PowerDSIne PD-AS-601/5	5V, af Type	P	
Linksys POEES5	5V, af Type	P	
Axis 5008-001-02	5V, af Type	P	
PowerDSIne PD-AS-701/12	12V, af type	P	24W rating, tested at 24W load
Phihong POE21-120-R	12V, at type	P	21W rating, tested at 21W load
PowerDSIne PD-AS-951/12-24	12V, DLL Classification	P	4 Pair, 54W rating, tested at 48W load
Phihong POE45-120-R	12V, 12.5K Classification	P	4 Pair, 45W rating, tested at 40W load
Hi-Power PS-1206G	12V, MSC201 Classifica.	P	4 Pair, 51W rating, tested at 48W load

100BaseT/1000 Base T network digital transmission testing

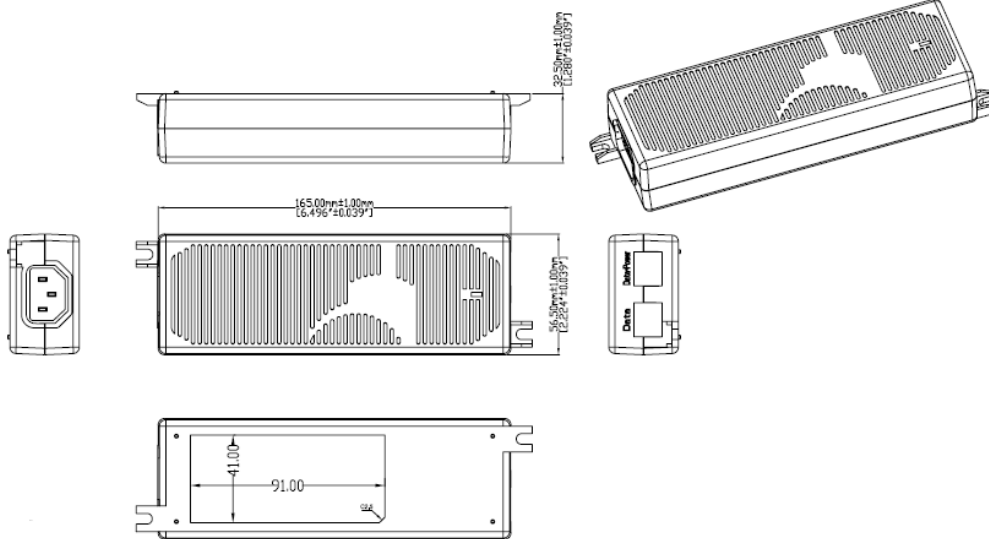
(During testing ethernet communications is passed thru Injector and then Splitter and then to a computer)

Injector tested: *Model GT-96600-7056*, rated 70W output, 56Vdc, IEEE802.3-2012 Compliant

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

Splitter Model	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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Linksys POEE55	5V, af Type	P	
Axis 5008-001-02	5V, af Type	P	
PowerDSIne PD-AS-701/12	12V, af type	P	24W rating, tested at 24W load
Phihong POE21-120-R	12V, at type	P	21W rating, tested at 21W load
PowerDSIne PD-AS-951/12-24	12V, DLL Classification	P	4 Pair, 54W rating, tested at 48W load
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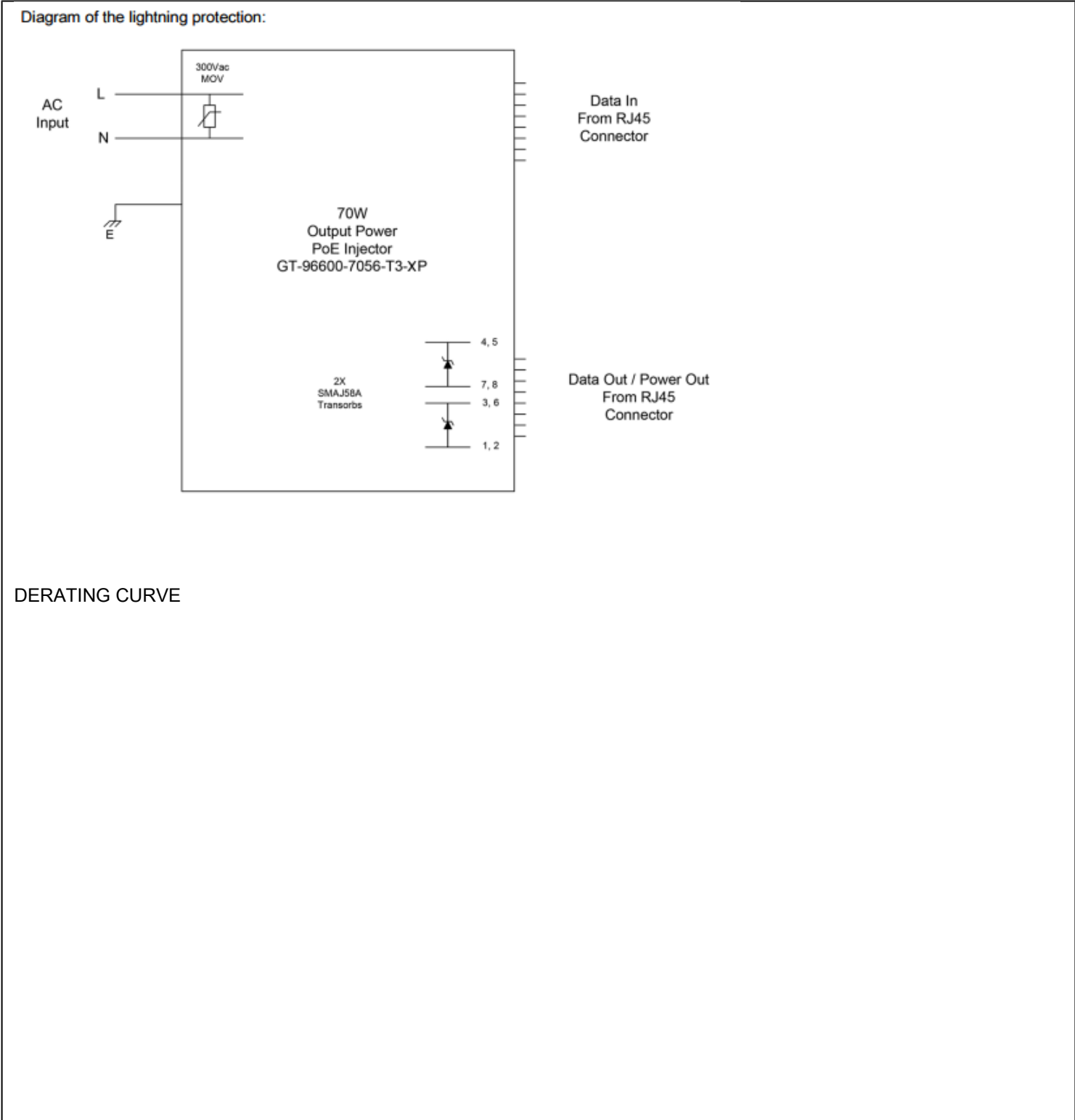
100BaseT/1000 Base T network digital transmission testing

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

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Splitter Model	Splitter Description	P/F	Notes:
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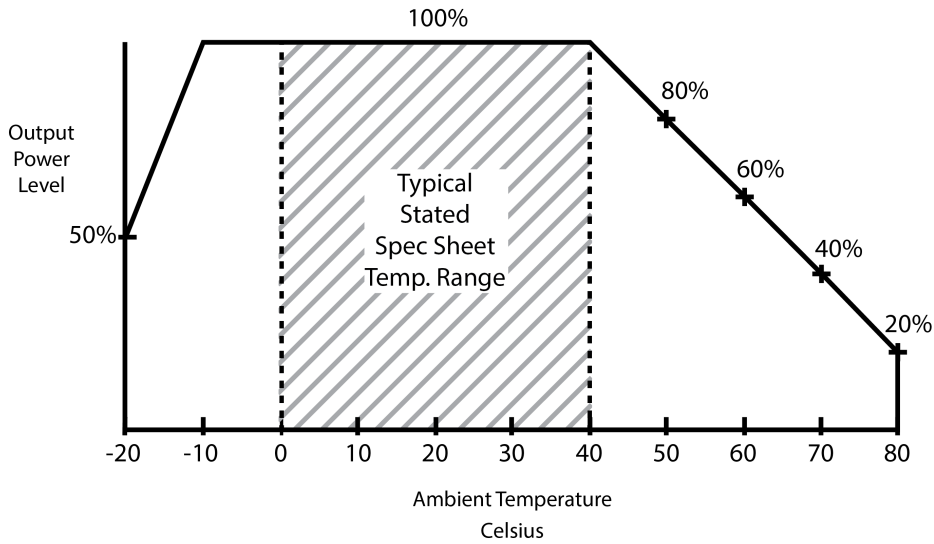


DERATING CURVE

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Typical External Power Supply Derating Curve

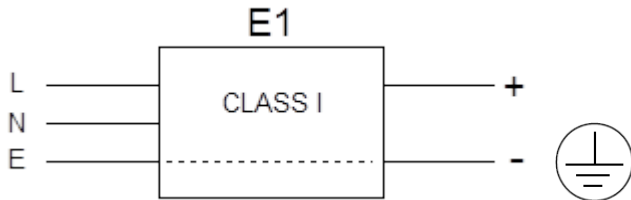
(For Efficiency Level V and Efficiency Level VI Products)



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INPUT CONFIGURATION

(E1) Earthed output

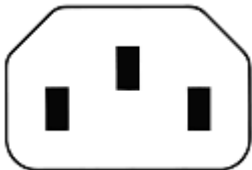


[Alternate grounding configurations](#) available upon request.

Blades/Cord Included:None:

Blades/Cord Installed:None:

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

Part Number/ Link	Country	Plug	Termination	Length (mm)	(Ft)
3021457F701(R)	N. American (Type B)	NEMA 5-15P	IEC 320/C13	2150	7

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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
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]	Japan (Type B)	JIS 8303 / 3 PINS	IEC 320/C13	2500	8
3003068F2701-HK(R) [3 x 2.0mm2]					
302J115J6F0701J(R)	Japan / North America (Type B – 12A)	JIS 8303 / 3 PINS and NEMA 5-15P (PSE and UL/CUL appr)	IEC 320/C13	1830	6
302J104J6F0701J(R)	Japan / North America (Type B – 15A)	JIS 8303 / 3 PINS and NEMA 5-15P (PSE and UL/CUL appr)	IEC 320/C13	1830	6
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
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

GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GT-96600-7056-T3-AP, ITE Power Supply, 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: 70W, 56V@1.25A, Output Configuration: N/A mm, N/A/ Cond, N/A, 2 x RJ-45 Jacks mounted in 94V-0 enclosure per IEEE 802.3af configuration, Ferrite: None, GlobTek Black, GT Cord # C1675, Pin Out: PoE injector wiring Data, Data+Power, RJ45 x 2, Blades/Input Cord: (Order Separately), Approvals: ETL; Patent US9838207B2; EAC; South Africa; CE; China RoHS; Class I; RoHS; Ukraine; VCCI; WEEE; Level VI; S-Mark 60950; CB 60950; EAC;	
	Model No. GT-96600-7056-T3-AP	
	Part No./Ordering No. GT966007056-T3-APOE	Rev C

OUTPUT CORD AND CONNECTOR: RJ452JACK/C1675

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	GlobTek Black
FERRITE TYPE / DIMENSION	None
FERRITE # OF TURNS(Definition)	N/A
FERRITE DIMENSION FROM STRAIN RELIEF	N/A
FERRITE DIMENSION FROM PLUG	N/A
PLUG TYPE	2 x RJ-45 Jacks mounted in 94V-0 enclosure per IEEE 802.3af configuration
OUTPUT CONNECTOR SEX	
OVERMOLDED	
OVER MOLD ORIENTATION	Straight
CONNECTOR PIN OUT:	PoE injector wiring Data, Data+Power, RJ45 x 2
ADDITIONAL REQUIREMENTS	

ADDITIONAL OUTPUT PLUG OPTIONS ARE AVAILABLE AT <https://www.globtek.com/connectors/>
STANDARD PLUGS AND CONNECTORS CAN BE SEEN ONLINE AT <https://www.globtek.com/connectors/>

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Part No./Ordering No. GT966007056-T3-APOE	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.

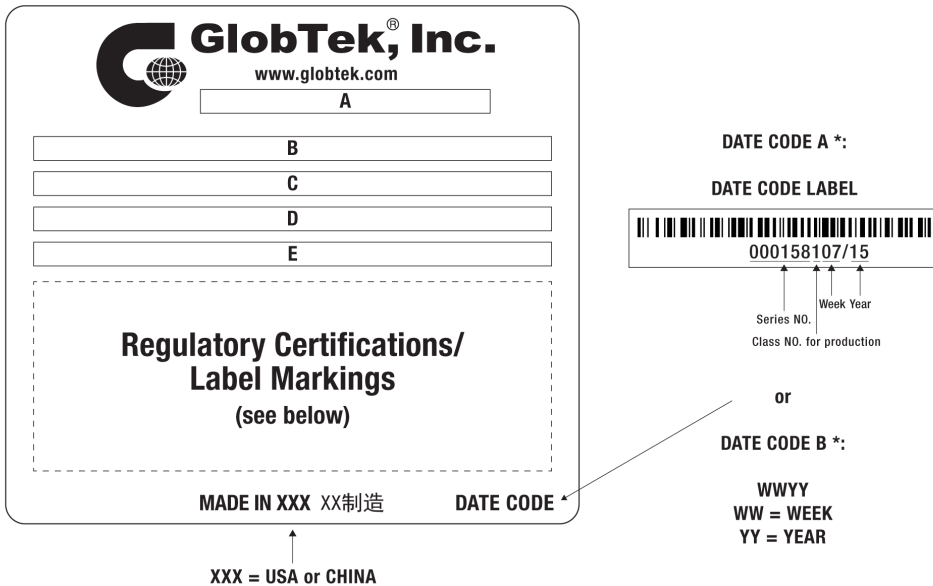
TEXT COLOR: White or Silver if label is Black Background for Black housing. Black if label is White or Silver background and Housing is White or Gray

LABEL WIDTH (mm):

LABEL HEIGHT (mm):

SPECIAL BARCODE LABEL MATERIAL:

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=ITE Power Supply
 B=P/N: (料号) GT966007056-T3-APOE
 C=Model (型号) GT-96600-7056-T3-AP
 D=Input (输入) 100-240V~, 50-60 Hz, 2.0A
 E=Output (输出) 56 V 1.25 A, 70.0W

AGENCY ONLINE DOCUMENTS <http://www.globtek.info/certs/GT-96600/>
 CE EC-Declaration for Medical [Contact GlobTek for more information](#)

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	Model No. GT-96600-7056-T3-AP	
	Part No./Ordering No. GT966007056-T3-APOE	Rev C

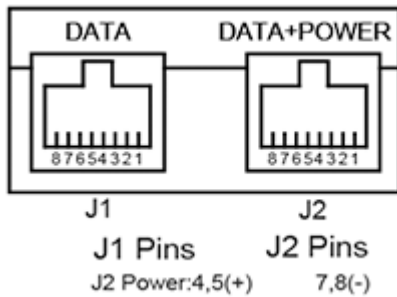
CE EC-Declaration for Industrial/Commercial/ITE http://globtek.force.com/models/ec_declaration?id=a0Oa000000Mj0z4EAB
CE EC-Declaration for Household [Contact GlobTek for more information](#)
RoHS/RoHS3 Declaration https://www.globtek.com/pdf/rohs_cert/01ta0000007bwq6AAA
REACH Declaration https://www.globtek.com/pdf/iso_certificates/REACH.pdf
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/a0Oa000000Mj0z4>
AGENCY ONLINE DOCUMENTS: <http://www.globtek.info/certs/GT-96600/>



(E1) Earthed output



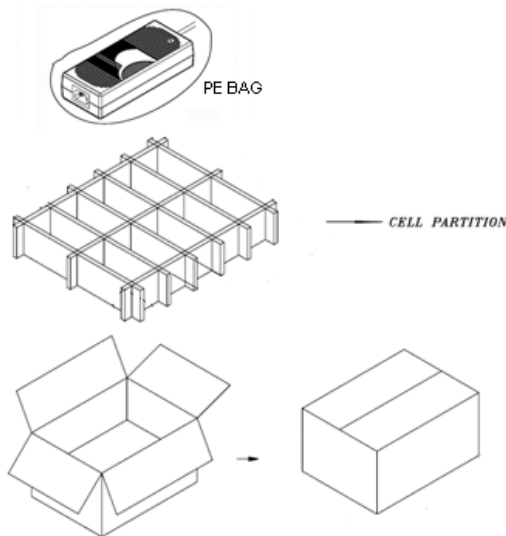
PoE injector wiring Data, Data+Power, RJ45 x 2

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PACKAGING

Packing Spec P/N:	Standard DT, Cellular packaging, User manual
Box Qty:	20
Gift Box Size (mm):	Egg crate
Gift Box Color:	White
Master Carton Size (mm):	405 x 427 x 158
Master Carton Cubic Volume (m ³):	0.03
Master GW (Kg):	kg
BLADES INCLUDED:	None:
BLADE/CORD INSTALLED:	None:
USER MANUAL:	809-DESKTOPUSERMANUAL on A4 paper
USER MANUAL WEB LINK:	https://en.globtek.com/pdf/809-DESKTOPUSERMANUA...

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-96600-7056-T3-AP</p>
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	<p>Rev C</p>

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