

GloTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GT-96600-7056-T3-PP, ICT/ITE Power Supply, Efficiency Level: USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782, Case Color/Style: GlobTek Black, Desktop/External, Single Port Passive Power Over Ethernet Midspan (Passive/Dumb PoE PSE) Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C14 , Output Rating: 70W, 56.0V@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; UKCA; Morocco; South Africa; CE; China RoHS; Class I; Level VI; RoHS; Ukraine; VCCI; WEEE; EAC;	
	Model No. GT-96600-7056-T3-PP	
	Part No./Ordering No. GT966007056-T3-PPOE	Rev E

REVISION HISTORY

REV	DESCRIPTION	SUB	DATE	APPROVED
E			06/09/2020	QA
D	Update Technology in Power Supply Information from Single Port Power Over Ethernet Midspan (IEEE802.3af PoE PSE) to Single Port Passive Power Over Ethernet Midspan (Passive/Dumb PoE PSE) Power Supply AC Adaptor. Update pinout to POE RJ45X2-B		10/02/2019	QA
C	Update pinout view from POERJ45X2 to POE2xRJ45		06/21/2019	QA
B	Update grounding configuration from E1 to F3		01/11/2019	QA
A	Initial Release		01/08/2019	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/>).

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 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 Passive Power Over Ethernet Midspan (Passive/Dumb PoE PSE) Power Supply AC Adaptor
CASE COLOR:	GlobTek Black
NAMEPLATE RATED INPUT:	100-240V~, 50-60 Hz, 2.0A
INPUT CONFIG:	IEC 60320/C14
WATTS:	70.0
VOLTS OUT:	56.0
CURRENT OUT (Amps):	1.25
BLADE/CORD INCLUDED:	None (Order Separately)
BLADE/CORD INSTALLED:	None :(Order Separately)
INGRESS PROTECTION:	
GROUNDING CONFIGURATION:	(F3) Floating output/Isolated Common by Capacitor
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, 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:	No
PACK SPEC:	Standard DT, Cellular packaging, User manual
USER MANUAL:	809-DESKTOPUSERMANUAL on A4 paper

PROPRIETARY INFORMATION

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

DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE.

RFP RFI-96657

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ELECTRICAL SPECIFICATIONS

GloTek's GT-96600-7056 Power over Ethernet Midspan Injector offers cost effective and reliable solution for remote powering of ethernet appliances up to 70 Watts over existing network infrastructure. GloTek PoE Midspan Injector is configured to provide 70 watts of power over four pairs in per the IEEE 802.3 -2012 standard. When the load device is connected, GloTek's Passive PoE Midspan will immediately source power to the Powered Device. GloTek's 56V Passive PoE Injector is designed to function with and provide power to any device.

MAIN FEATURES

- Cost Effective Passive PoE, supplies continuous power without requiring handshaking communications
- Passive PoE models can transfer 10/100/1000 BaseT Data Rates (Gigabit compatible)
- Simple PoE models can transfer 10/100 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 to show output power availability

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

A) 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.

Turn on-delay: 1 Second Typical @ 115Vac

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

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

Leakage current: <100uA

Isolation: 3000 VAC

OUTPUT

Power Injection Pins

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

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

Output Voltage: 56V

Output Power: 70W Max

Output Voltage Regulation: +/-3%, and less than 57Vdc

Output Voltage Ripple: 100mVpp max

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

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

Safety UL/cUL 60950-1, EN 60950-1, CE

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

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

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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://en.globtek.com/technical-articles/ferrite-kit-radiated-emi-suppression-kit-for-globtek-power-supplies-cable-assemblies>

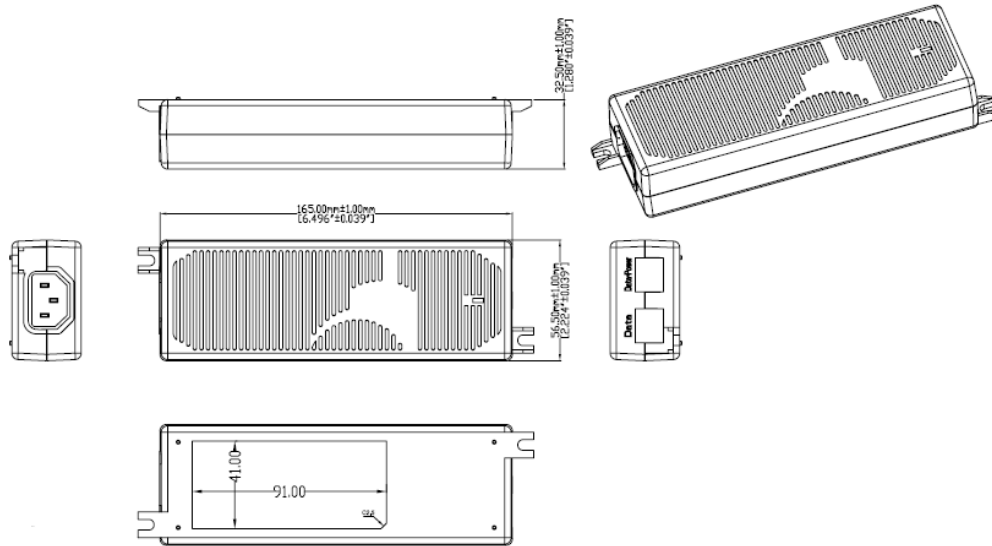
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70W PoE Injector, Ethernet InterOperability and Compatibility Testing

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

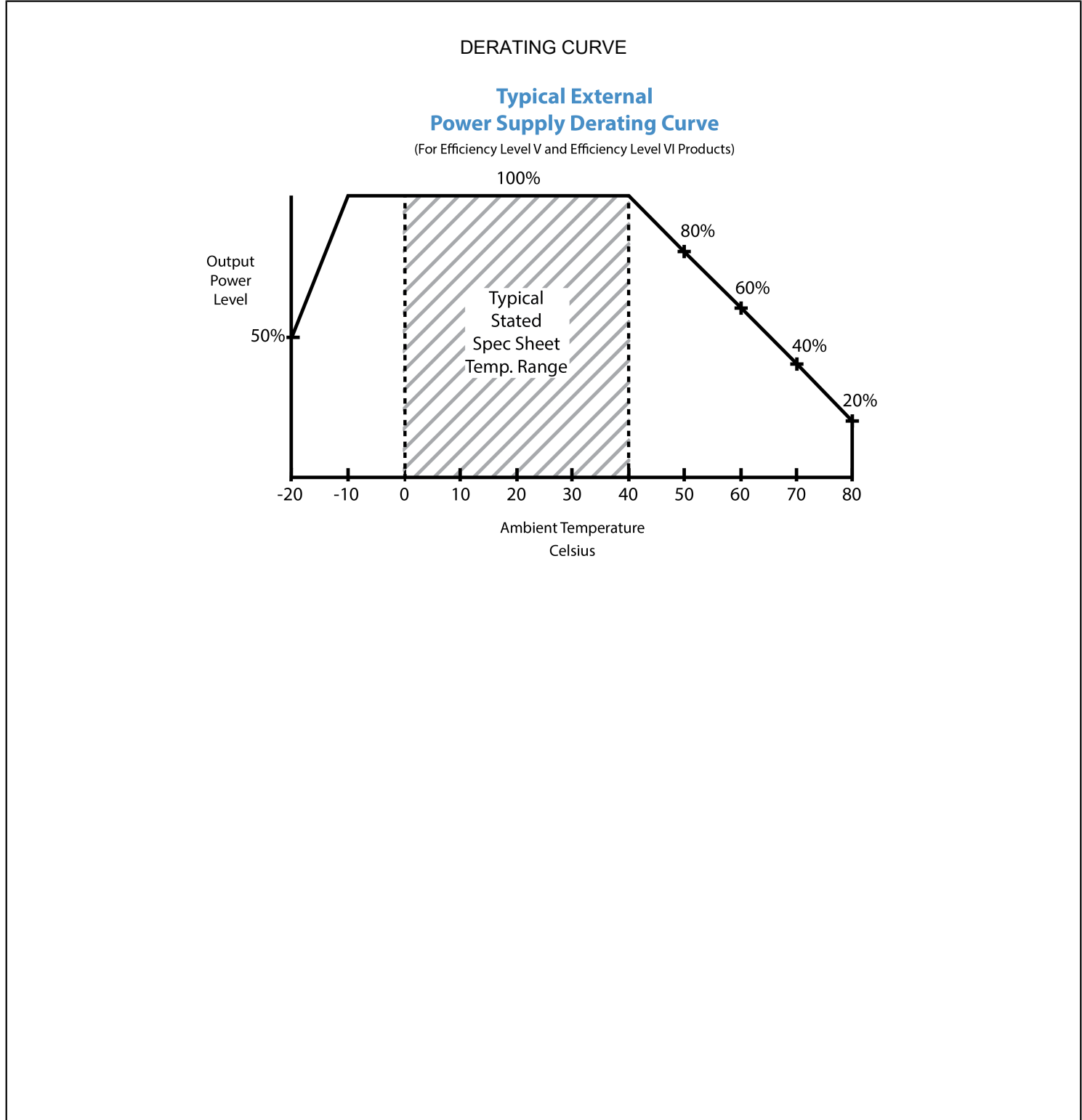
(During testing ethernet communications is passed thru Injector and then Splitter and then to a computer)

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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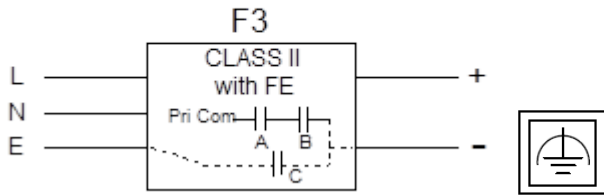


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INPUT CONFIGURATION

(F3) Floating output/Isolated Common by Capacitor

GTM21089, GTM21097 and
GTM961600 Optional Config

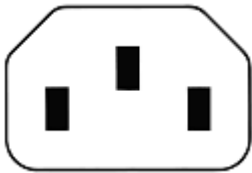


[Alternate grounding configurations](#) available upon request.

Blades/Cord Included:None:(Order Separately)

Blades/Cord Installed:None:(Order Separately)

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)
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
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

GloTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GT-96600-7056-T3-PP, ICT/ITE Power Supply, Efficiency Level: USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782, Case Color/Style: GlobTek Black, Desktop/External, Single Port Passive Power Over Ethernet Midspan (Passive/Dumb PoE PSE) Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C14 , Output Rating: 70W, 56.0V@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; UKCA; Morocco; South Africa; CE; China RoHS; Class I; Level VI; RoHS; Ukraine; VCCI; WEEE; EAC;	
	Model No. GT-96600-7056-T3-PP	
	Part No./Ordering No. GT966007056-T3-PPOE	Rev E

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 GENDER	
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/>

CALCULATE VOLTAGE REGULATION/DROP WITH OUR ONLINE CALCULATOR: <https://en.globtek.com/output-cable-regulation-calculator/>

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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:

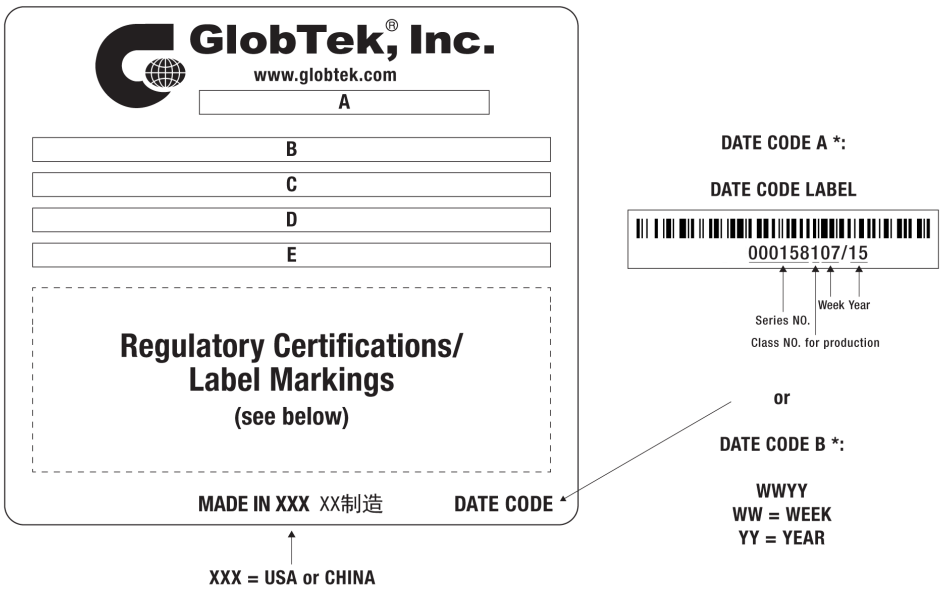
<https://en.globtek.com/technical-articles/ferrite-kit-radiated-emi-suppression-kit-for-globtek-power-supplies-cable-assemblies>

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	Model No. GT-96600-7056-T3-PP	
	Part No./Ordering No. GT966007056-T3-PPOE	Rev E

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:	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=ICT/ITE Power Supply
 B=P/N: (料号) GT966007056-T3-PPOE
 C=Model (型号) GT-96600-7056-T3-PP
 D=Input (输入)100-240V~, 50-60 Hz, 2.0A
 E=Output (输出)56.0 V --- 1.25 A, 70.0W

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	Model No. GT-96600-7056-T3-PP Part No./Ordering No. GT966007056-T3-PPOE

AGENCY ONLINE DOCUMENTS	http://www.globtek.info/certs/GT-96600/
CE EC-Declaration for Medical	Contact GlobTek for more information
CE EC-Declaration for Industrial/Commercial/ITE	http://globtek.force.com/models/ec_declaration_product?id=01ta0000007fdDP&i=5
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	http://globtek.force.com/models/ukca_declaration_product?id=01ta0000007fdDP&i=5
UKCA-Declaration for Household	Contact GlobTek for more information
Morocco SDoC Declaration	https://globtek.secure.force.com/models/Morocco_SDoC_Declaration?id=a00a000000FkH0IEAF
RoHS/RoHS3 Declaration	https://www.globtek.com/pdf/rohs_cert/01ta0000007fdDPAAY
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://en.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.

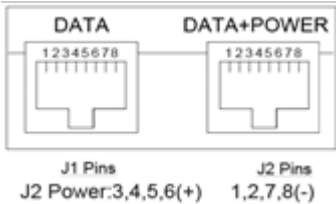
Regulatory Certifications/Label Markings

LATEST PRODUCT/MODEL CERTIFICATIONS: <https://en.globtek.com/datasheet/id/a00a000000FkH0I>

AGENCY ONLINE DOCUMENTS: <http://www.globtek.info/certs/GT-96600/>



(F3) Floating output/Isolated Common by Capacitor



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

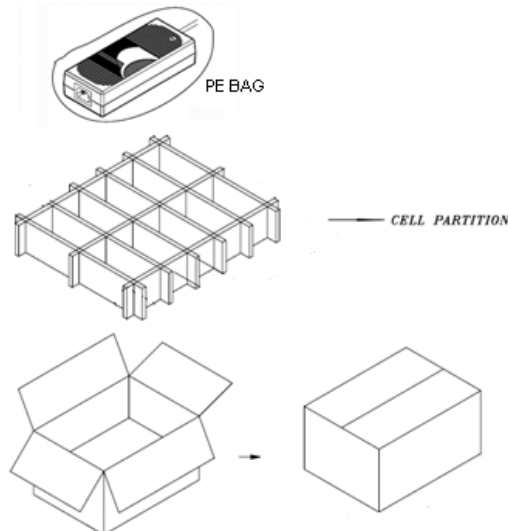
GloTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GT-96600-7056-T3-PP, ICT/ITE Power Supply, Efficiency Level: USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782, Case Color/Style: GlobTek Black, Desktop/External, Single Port Passive Power Over Ethernet Midspan (Passive/Dumb PoE PSE) Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C14 , Output Rating: 70W, 56.0V@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; UKCA; Morocco; South Africa; CE; China RoHS; Class I; Level VI; RoHS; Ukraine; VCCI; WEEE; EAC;	
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	Part No./Ordering No. GT966007056-T3-PPOE	Rev E

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 (m³):	0.03
Master GW (Kg):	kg
BLADES INCLUDED:	None: (Order Separately)
BLADE/CORD INSTALLED:	None: (Order Separately)
USER MANUAL*:	809-DESKTOPUSERMANUAL on A4 paper
USER MANUAL WEB LINK:	https://en.globtek.com/pdf/809-DESKTOPUSERMANUAL.jpg

* 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.



PROPRIETARY INFORMATION

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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