

Delivering leading edge, innovative power solutions for more than **30** years....

Model:GT-96600-7056-T3-AP

July 16, 2019

Level VI, DOE EPS 2.0/ErP2 compliant 70W Power over Ethernet (POE) Injector/IEEE802.3af PoE HPOE+ PSE (Power Sourcing Equipment), Gigabit, Four Pair, Class I

Information

Model Number GT-96600-7056-T3-AP

Description GT-96600-7056-T3-AP, ITE Power Supply, Desktop/External, Single Port Power Over Ethernet Midspan (IEEE802.3af PoE PSE), , Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C14 AC Inlet Connector, Class I, Earth Ground, Output Rating: 70 Watts, Power rating with convection cooling (W) , 56V in 0.1V increments, 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 Picture



Agency Documents <http://www.globtek.info/certs/GT-96600/>

CE EC-Declaration https://www.globtek.com/pdf/ec_declaration/a0Oa000000Mj0z4EAB

RoHS/RoHS2 Declaration https://www.globtek.com/pdf/rohs_cert/a0Oa000000Mj0z4EAB

REACH Declaration https://www.globtek.com/pdf/iso_certificates/REACH.pdf

Conflict Minerals Declaration <https://www.globtek.com/pdf/conflict-minerals.pdf>

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July 16, 2019

Model Parameters

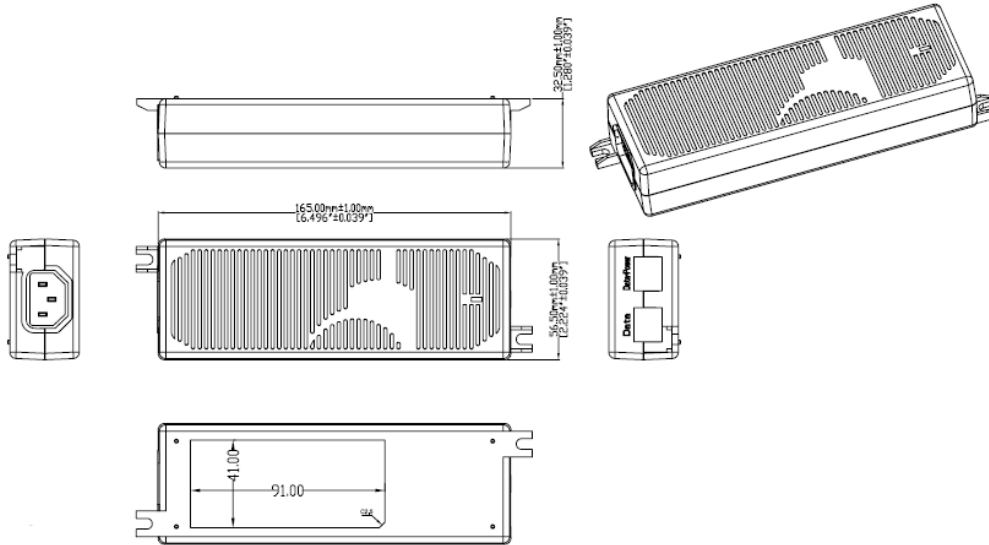
Type	Desktop/External
Technology	Single Port Power Over Ethernet Midspan (IEEE802.3af PoE PSE)
Category	ITE Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	2.0A
Wattage (W)	70.0
Vout Range (V)	56
Efficiency Level	VI
Ingress Protection	
Size (mm)	165*32.5*56.5 mm

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July 16, 2019

ENCLOSURE



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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

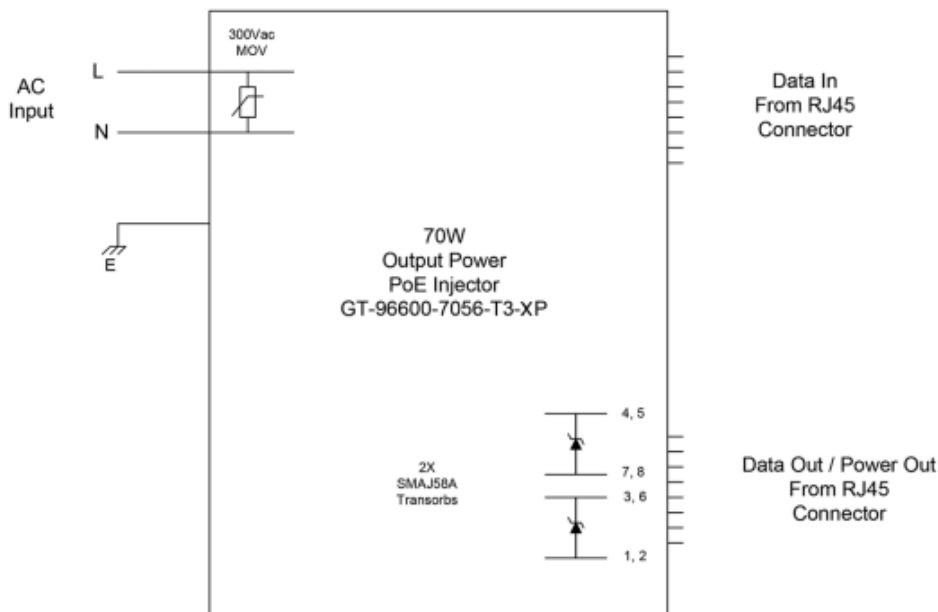
100BaseT/1000 Base T network digital transmission testing

(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

Diagram of the lightning protection:


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July 16, 2019

RATING TABLE

Model Number	Voltage(V)	Amps(A)	Watts(W)	RFQ
GT-96600-7056-T3-AP	56 V	1.25	70.00	RFQ

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July 16, 2019

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.

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

PROPRIETARY INFORMATION

PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.

<http://en.globtek.com/datasheet/id/a00a000000Mj0z4>

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Model:GT-96600-7056-T3-AP

July 16, 2019

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 Lightning 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.

SPECIAL OPTIONS

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

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Model:GT-96600-7056-T3-AP

July 16, 2019

4. Special Housing Colors

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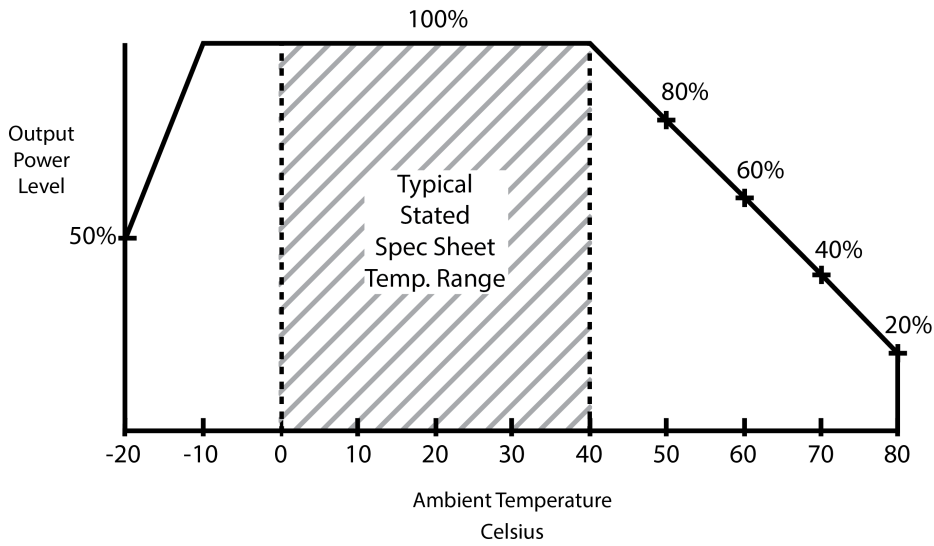
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July 16, 2019

DERATING CURVE

**Typical External
Power Supply Derating Curve**

(For Efficiency Level V and Efficiency Level VI Products)



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Model:GT-96600-7056-T3-AP

July 16, 2019

Input Configuration

Description 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
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

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July 16, 2019











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	

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July 16, 2019

Approvals

Logo	Description
No Logo Applicable	CB for IEC 60950-1:2005+A1+A2
	CE Certification
	CHINA SJ/T 11364-2014, China RoHS Chart: http://en.globtek.com/globtek-rohs.php
	Certification # TC RU C-US.AR46.B.79113 Custom Union of Russia, Belarus and Kazakhstan
	Declaration # EAЭC N RU Д-US.АД75.B.01052 Custom Union of Russia, Belarus and Kazakhstan http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration
	Information Technology Equipment Safety Part 1: General Requirements >Valid without technical revision:01Jan2022< [UL 60950-1:2007 Ed.2 +R:14Oct2014
EFFICIENCY LEVEL VI 	Efficiency: complies to section 301 of Energy Independence and Security Act (EISA) complies with Energy Star tier 2 (North America), ECP tier 2 (China), MEPS tier 2 (Australia), Code of Conduct (Europe)
Patent US9838207B2	Protected by US and international patents, US patent number US9838207B2
RoHS	Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863-EU (ROHS-3) http://www.ce-mark.com/Rohs%20final.pdf
	S-Mark Certificate EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011+A2:2013 (http://www.intertek.com/marks/s/)
No Logo	12
	Ukraine UKRSepr (Document: www.globtek.com/html/iso_certificates/GT_Ukraine.pdf)
	Japan: Voluntary Control Council for Interference (VCCI)
	WEEE: Complies with EU 2012/19/EU (http://ec.europa.eu/environment/waste/weee/index_en.htm) Mark is on the label or Molded in the case