

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

Model:GT-96300-36VV-T3-PP

May 9, 2025

GT-96300-36VV-T3-PP

Information

Model Number

GT-96300-36VV-T3-PP

Description

GT-96300-36VV-T3-PP, PoE, Passive Power Injector, 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 AC Inlet Connector, Class I, Earth Ground, Output Rating: 36 Watts, Power rating with convection cooling (W) , 18-56V in 0.1V increments, Approvals: CB 62368; Patent US9838207B2; EAC; CCC; UKCA; LPS 62368; cETLus 62368-1; S-Mark 60950; Morocco; India BIS; S-Mark 62368; IRAM; PSE; PSE; CE; China RoHS; Class I; Level VI; RoHS; Ukraine; VCCI; WEEE; RCM; CB 60335; ETL;

Model Picture



Agency Documents

<http://www.globtek.info/certs/GT-96300-POE/>

CE EC-Declaration

https://www.globtek.com/pdf/ec_declaration/a00a000000MnJfREAV

RoHS/RoHS2 Declaration

https://www.globtek.com/pdf/rohs_cert/a00a000000MnJfREAV

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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MODEL PARAMETERS

Type	Desktop/External
Technology	Single Port Passive Power Over Ethernet Midspan (Passive/Dumb PoE PSE) Power Supply AC Adaptor
Category	PoE, Passive Power Injector
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	1.0A
Wattage (W)	36.0
Vout Range (V)	18-56
Efficiency Level	USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782
Ingress Protection	IP40
Size (mm)	107*55*36

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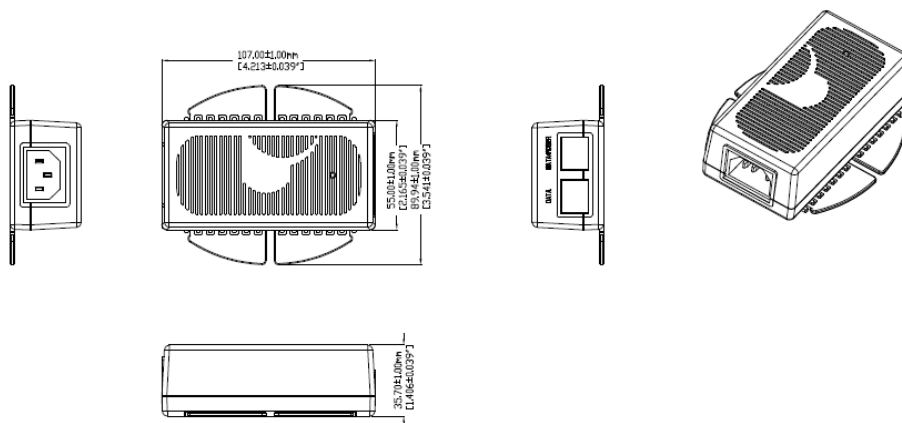
<https://www.globtek.com/ds/YrUUnir6pWH/3P28bKXgige.html#datasheet>

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ENCLOSURE



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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GT-96300-2719.5-1.5-T3-PP	18 V	1.5	27.00	RFQ
GT-96300-3224-T3-PP	24 V	1.333	31.99	RFQ
GT-96300-3636-T3-PP	36 V	1	36.00	RFQ
GT-96300-3648-T3-PP	48 V	0.75	36.00	RFQ
GT-96300-3656-T3-PP	56 V	0.642	35.95	RFQ

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SPECIFICATIONS

GlobTek's GT-96300-3656 Active Power over Ethernet Midspan Injector offers a cost effective and reliable solution for remote powering of wireless LAN Access Points, voice over IP (VoIP) phones, security cameras, RFID readers and other IP terminals up to 36W, using existing network infrastructure. This injector is configured to provide 36W of power per port over two pairs (Mode B) in compliance with IEEE 802.3at standard.

The GT-96300-3656 Active PoE Injector is designed to function with and provide power to any IEEE 802.3at compliant PoE device.

MAIN FEATURES

- Withstands high energy EMI immunity events without going into latched shutdown state
- Enhanced 36W output power capability
- IEEE 802.3at detection, 2 Event classification, disconnect and overload protection
- LED user interface for "power good" and fault conditions
- Compliant to PoE+, 10/100/1000 Base-T data rates
- Universal input power from 100V_{AC} to 240V_{AC}
- Unique patented green design: Compliant to DoE Efficiency level VI requirement
- Full protection for over-voltage and over-current
- Compact 104 x 54 x 40 mm (w/o mounting 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

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- PDAs
- Digital Time clock

A) ELECTRICAL SPECIFICATIONS

INPUT

Input Voltage: 90-264 V_{AC} (85-264V_{AC} @ 85% of rated output power)**Input Line Frequency:** 47-63Hz**Input Current:** <1A RMS @ 90V_{AC} Full Load**Inrush Current:** 60A (typ.), cold start @ 25°C at 230V_{AC}**No load Power:** <100mW**Efficiency:** >87.4% (typ.), 4-point average efficiency, @ full load/230 V_{AC}**Turn on-delay:** 1 second typical @ 115V_{AC}**Input Line Protection:** MOV transient protected**Hold-up time:** 8ms typical at nominal input voltage and full load**Leakage current:** <100μA**Isolation:** 3000 V_{AC}

OUTPUT

Number of Ports: 1**Data Rates:** Compliant to PoE+, 10/100/1000 Mbits/second Ethernet speed**Power Injection Method:**

IEEE 802.3at "Midspan" Mode B, using pins 4 & 5 (DC+) and 7 & 8 (DC-)

*Mode A configuration, using pins 1 & 2 and 3 & 6 available upon special request*Please read our article [Power over Ethernet \(PoE\) Mode A vs. Mode B](#) for more information.**Port Voltage:** 56V_{DC} (nom.), measured between pins 4 & 5 and 7 & 8**Port Current:** 0 to 640mA (max.)**Port Power:** 36W (max.)**Port Voltage Regulation:** Complies with IEEE 802.3at requirements**Port Voltage Ripple:** Complies with IEEE 802.3at requirements**Port Voltage Transient Performance:** Complies with IEEE 802.3at requirements**Port Overload Protection:** Complies with IEEE 802.3at Requirements. Port will shut down during overload and auto recover when overload is removed.**Port Short Circuit Protection:** Complies with IEEE 802.3at Requirements. Port will shut down during short circuit and auto recover when short is removed.**Port Power Disconnection Method:** Automatic disconnect if < 10mA minimum load detected per IEEE 802.3at standard.

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USER INTERFACE

Green LED status indicator with four possible states:

1. No light: No powered device detected at end of Ethernet cable
2. Flashing at 1.5Hz: Detection (hand-shaking) in-process with Powered Device (PD)
3. Continuous light: Good connection with Powered Device (PD)
4. Flashing at 10Hz: Over current condition

B) ENVIRONMENTAL

Temperature (Operating): -10°C to 40°C

Temperature (Storage): -30°C to 80°C

Humidity: 0% to 95% relative humidity, non-condensing

Altitude: Operating, up to 5000m

C) MECHANICAL / ENCLOSURE

Housing: High impact plastic, 94V-0 polycarbonate, non-vented

Markings: Label, pad printed, and/or laser-etched onto the case

Dimensions: 104x54x40mm (w/o mounting flange)

Weight: 0.35lb (159g)

AC Input Mechanical Options:

Desktop with C6, C8, C14 or C18 IEC Inlet.

Hybrid housing (Desktop or inter-changeable blade wall plug-in), Class I or Class II input

Data and Data+Power Connector: Fully Shielded RJ45

D) EMISSIONS AND IMMUNITY

Emissions: 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 802.3at: Product tested per the requirements of IEEE 802.3at

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INTEROPERABILITY: Product'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. Compatibility to 24W-30W output power splitters using Data Link Layer Classification
4. High reliability PCB laminate with plated through holes for IPC610 Class 2 compliance
5. Special housing colors
6. 48V to 54V output voltage, contact GlobTek for availability

36W PoE Injector, Ethernet InterOperability and Compatibility Testing

Injector tested: *Model GT-96300-3656*, rated 36W output, 56Vdc, IEEE802.3-2009 at Compliant

Note, assuming 80% eff splitter, max Pout = 28.8W (28.8/36 = 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	24W
Phihong POE21-120-R	12V, at type	21W	21W
Cisco 7970 Series Phone	IP Phone, af type	Input to Phone rating 48V, 0.38A	

* For 24W-30W output power Splitters using Data Link Layer Classification, contact GlobTek for option availability.

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-96300-3656*, rated 36W output, 56Vdc, IEEE802.3-2009 at Compliant

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

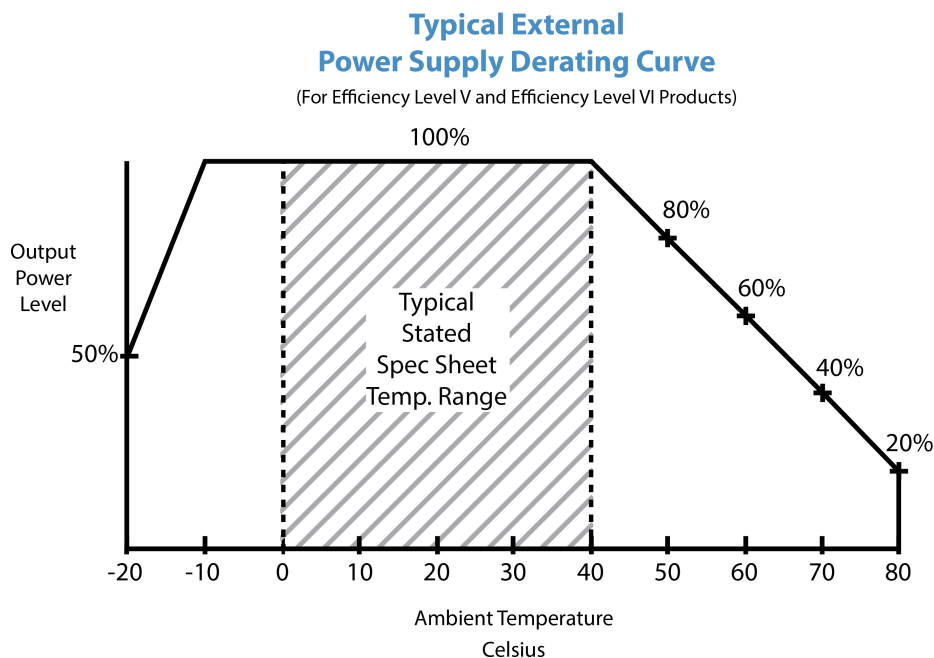
Splitter Model Used	Splitter Description	P/F	Notes:
Axis 5008-001-02	100 Base T rating	P	Limited bandwidth splitter
PowerDSIne PD-AS-701/12	1000 Base T rating	P	Full bandwidth splitter

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DERATING CURVE



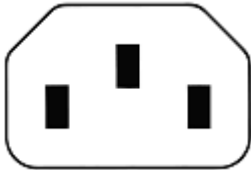
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INPUT CONFIGURATION

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
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

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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)	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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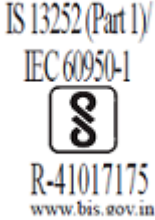
Approvals

Logo	Description
No Logo Applicable	CB for IEC 62368-1:2014 (Second Edition)
	CCC Altitude up to 5000 m GB17625.1-2012, GB4943.1-2011, GB/T9254-2008 for GT-96300-WVVV-T2(A) R2 (T3,T3A) R3A (48V, 54V, 56V)
	CE Certification
No Logo Applicable	IEC 60335-1:2010 (Fifth Edition) incl. Corr. 1:2010 and Corr. 2:2011 + A1:2013
	Information Technology Equipment Safety Part 1: General Requirements (UL 60950-1 Issued: 2007/03/27, Ed: 2 Rev: 2014/10/14)
	CHINA SJ/T 11364-2014, China RoHS Chart: http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%205-20-22.pdf
Conforms to UL STD. 62368-1 Certified to CSA STD C22.2 NO.62368-1	Conforms to UL STD. 62368-1 Certified to CSA STD C22.2 NO.62368-1
	Declaration ДС № EAЭС N RU Д-US.KA01.B.10453_19 Custom Union of Russia, Belarus and Kazakhstan http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration

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	Bureau Of Indian Standards for GT-41052
	IRAM certificate to IEC 62368-1:2014
	JAPAN TUV R-PSE, Cert. No. JD50473430 , to J62368-1(H30) , J55032(H29),J3000(H25)[DC15? 30V]. Please reference the following website for guidelines on PSE regulations: https://www.globtek.com/r2/Szj4Vb
	JAPAN TUV R-PSE, Cert. No. JD 50473430, to J62368-1(H30) , J55032(H29),J3000(H25)[DC30? 60V]. Please reference the following website for guidelines on PSE regulations: https://www.globtek.com/r2/Szj4Vb
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)
LPS	Limited Power Source 62368
	Morocco SDoC declaration http://www.globtek.info/certs/Morocco%20SDoC%20Declaration/
Patent US9838207B2	Protected by US and international patents, US patent number US9838207B2

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 GMA-515496-EA	RCM certificate GMA-515496-EA; Australia and New Zealand Regulatory Compliance, Mark (http://rcm.standards.org.au/rcmfaq/rcmfaq.htm)
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)
 Intertek	S-Mark Certificate EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011+A2:2013 (http://www.intertek.com/marks/s/)
 Intertek	S-Mark Certificate EN 62368-1:2014 + A11 (http://www.intertek.com/marks/s/)
	UKCA Certification
 10276	Ukraine UKRSepro (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