

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

Model:GT-96300-36VV-T2-SP

May 3, 2024

GT-96300-36VV-T2-SP

Information

Model Number

GT-96300-36VV-T2-SP

Description

GT-96300-36VV-T2-SP, ICT/ITE Power Supply, 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/C8 AC Inlet connector, Class II, Non-Earth Ground (aka "Figure-8"), Output Rating: 36 Watts, Power rating with convection cooling (W) , 18-56V in 0.1V increments, Approvals: CB 62368; Patent US9838207B2; EAC; CCC; UKCA; Conforms to 62368-1; S-Mark 60950; ETL; LPS 62368; Morocco; S-Mark 62368; WEEE; VCCI; Ukraine; China RoHS; RoHS; Level VI; CE; Double Insulation; ETL 62368; PSE; RCM; CB 60335;

Model Picture



Agency Documents

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

CE EC-Declaration

https://www.globtek.com/pdf/ec_declaration/a00a000000FiJjIEAV

RoHS/RoHS2 Declaration

https://www.globtek.com/pdf/rohs_cert/a00a000000FiJjIEAV

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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May 3, 2024

MODEL PARAMETERS

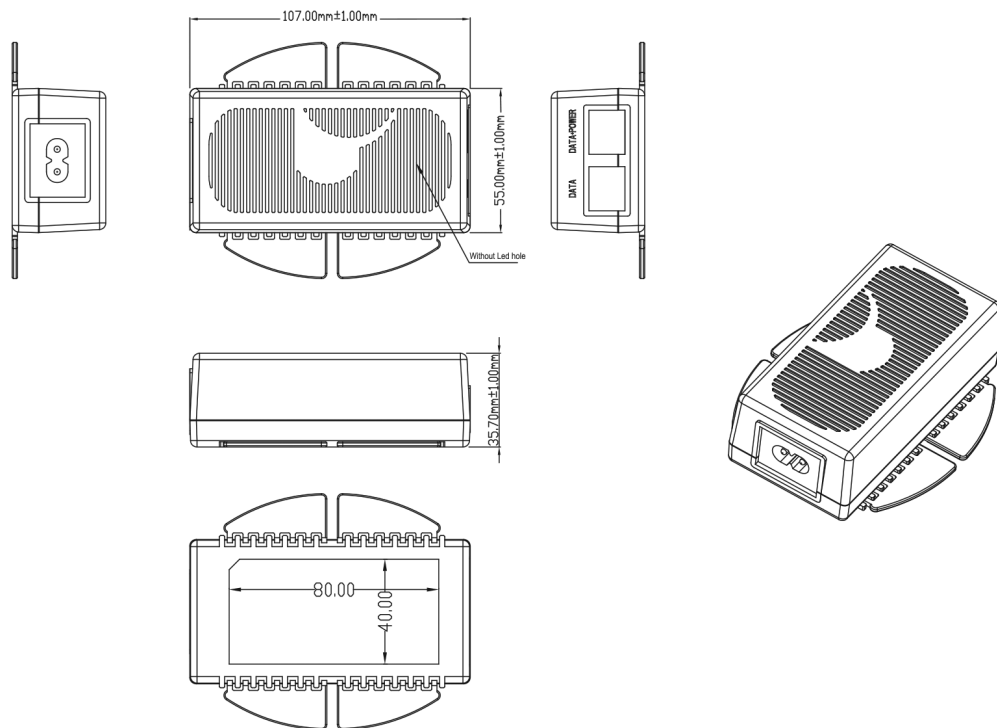
Type	Desktop/External
Technology	Single Port Passive Power Over Ethernet Midspan (Passive/Dumb PoE PSE) Power Supply AC Adaptor
Category	ICT/ITE Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	1.0A
Wattage (W)	36.0
Vout Range (V)	18-56
Efficiency Level	USA DOE Level VI / Eco-design Directive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

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May 3, 2024

ENCLOSURE



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May 3, 2024

RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GT-96300-3619.5-1.5-T2-SP	18 V	2	36.00	RFQ

Model:GT-96300-36VV-T2-SP

May 3, 2024

SPECIFICATIONS

GlobTek's 18W and 36W Power over Ethernet, Passive Midspan Injectors offers cost effective and reliable solution for remote powering of specialized non-standard Ethernet Powered Devices requiring up to 36 Watts over existing network infrastructure. GlobTek's Passive PoE Midspan injectors are configured to provide 18 or 36 watts of power over two pairs (4,5 + and 7,8 -) per IEEE 802.3 defined wires. When the load device is connected, GlobTek's Passive PoE Midspan will immediately source power to the Powered Device. GlobTek's 56V Passive PoE Midspan are designed to function with and provide power to any IEEE 802.3 PoE device. For specialized applications Globtek can also provide lower output voltage models between 18V and 48V with reduced circuit complexity, these are referred to as our Simple Power over Ethernet Injector products.

MAIN FEATURES

- Cost Effective Passive PoE, supplies continuous power without requiring handshaking communications
- Output can source up to 18W or 36W at 18V, 24V, 36V, 48V, or 56V
- Withstands high energy EMI Immunity events without going into latched shutdown state
- Short Circuit and Overload Protection protects Ethernet cabling if Splitter has a Short Circuit
- Green LED Indicates Output Power Availability
- Passive PoE models can transfer 10/100/1000 BaseT Data Rates (Gigabit compatible)
- Simple PoE models can transfer 10/100 BaseT Data Rates
- Universal Input Power from 100Vac to 240Vac
- 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

- Custom Ethernet Power Distribution Architecture
- 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
- Digital Time clock

A) ELECTRICAL SPECIFICATIONS:

INPUT

Power Inlet available as Class I (3 wire) or Class II (2 wire)

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

Input Line Frequency: 47-63Hz

Input Current:< 1.2A RMS @ 90Vac Full Load for 36W

< 0.6A RMS @ 90Vac Full Load for 18W

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May 3, 2024

Inrush Current: 30/60A max at 115/230Vac
No load Power: < 100mW
Efficiency: > 87.4%, 4 Point Avg efficiency. Typical at Full Load for 36W
> 85.0%, 4 Point Avg efficiency. Typical at Full Load for 18W
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
Touch current at output: <100uA
Earth Leakage current at input: <100uA
Isolation: Input to Output, 3000 VAC

OUTPUT

Power Injection Pins: 4&5 for V+ and 7&8 for Common
Port Voltage: 18V to 56V
Port Power: 18W or 36W Max
Port Voltage Regulation: +/-3%, and less than 57Vdc
Port Voltage Ripple: 100mVpp max

B) ENVIRONMENTAL

Temperature: Operating, 0C to 40C
Storage, -25C to 65C
Humidity: Operating, 10% to 90% Relative Humidity, Non Condensing
Storage, 10% to 65% Relative Humidity, Non Condensing
Altitude: Operating, Up to 5000M

C) MECHANICALS

Dimensions: 104*54*40 mm (w/o MTG Flange)
Weight: 0.35 Lb, 155 gr.
AC Input Connector: IEC 320 Inlet, C14, C8, C6 or C18 Style
Data and Data+Power Connector: Fully Shielded RJ45

D) EMISSIONS and IMMUNITY

Emission: Meets FCC Class B Part 15, EN55022 Class B
Immunity: Meets the following;
EN 61000-4-2 ESD (+/-18KV Air, +/-8KV Contact)
EN 61000-4-3 Radiated Immunity
EN 61000-4-4 EFT (+/-4K, performance criteria B)
EN 61000-4-5 Surge (+/-2KV Line-Line, +/-4KV Line to Gnd)
EN 61000-4-6 Conducted Susceptibility
EN 61000-4-11 Voltage Dips and Interrupts
EN 61000-3-2 Harmonics, Class A

E) SAFETY APPROVALS

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

F) INTEROPERABILITY: Passive and Simple 48V and 56V models work with all types of AF and AT Splitters and PoE appliances with

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May 3, 2024

appropriate input power requirements

G) ENCLOSURE

Housing: High impact plastic, 94V0 polycarbonate, non-vented

Markings: Label and/or Pad Printed and/or Molded in the case

H) SPECIAL OPTIONS

Custom Markings

Direct Wall Plug-in Housing Style (Hybrid Option)

High Rel PCB laminate with Plated through Holes for IPC610 Class 2 Compliance

Special Housing Colors

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

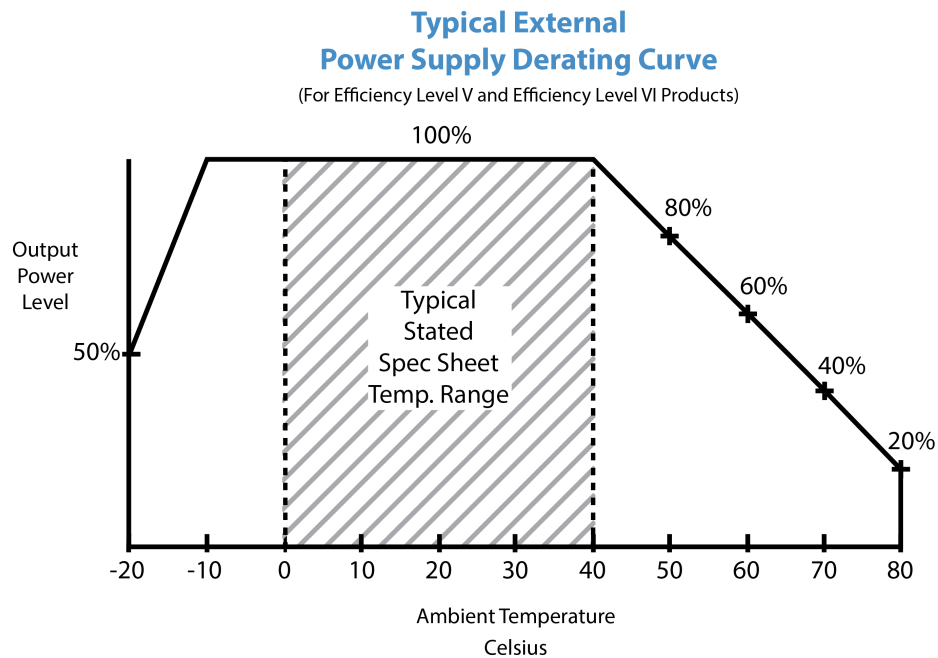
Injector is Gigabit designed and tested, to 100 Base T and 1000 Base T

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

Model:GT-96300-36VV-T2-SP

May 3, 2024

DERATING CURVE



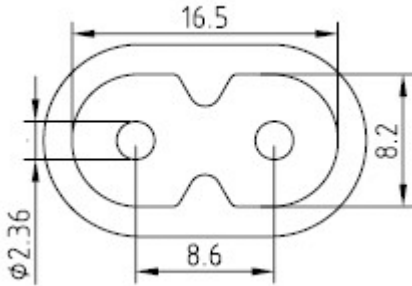
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May 3, 2024

INPUT CONFIGURATION

Description IEC 60320/C8 AC Inlet connector, Class II, Non-Earth Ground (aka "Figure-8")



Mates with IEC 60320/C7 Plug

Below are standard cordsets which are "not included" (unless stated above); these may be purchased separately or packaged with the power supply. Please contact your Sales Engineer if the style required is not shown below. Many more available in different lengths, colors or cable material.

Standard International IEC 320/C7 Cordsets

Part Number	Type	Standard	Connector	Length (mm)	Length (feet)
2094112M703(R)	Argentina (Type I)	IRAM 2063	IEC 320/C7	2000	7
5014112M703A(R)	Australian (Type I)	AS 3112	IEC 320/C7	2000	7
207B4111M8703(R)	Brazil (Type N)	NBR14136	IEC 320/C7	1800	6
4533501M8703(R)	China (Type A)	GB 2099.1	IEC 320/C7	1830	6
2074112M703A(R)	European (Type C)	CEE 7/16	IEC 320/C7	2000	7
2074112M703AEUSA(R)	European/South Africa Combo(Type C)	CEE 7/16	IEC 320/C7	2000	7
2084111M8703B(R)	India (Type D)	IS 1293	IEC 320/C7	1800	6
451J3401M8703(R)	Japan (Type A)	JIS 8303	IEC 320/C7	1830	6
2044112M703A(R)	Korea (Type C)	KS C8305	IEC 320/C7	2000	7
4511116F703A(R)	North America (Type A)	NEMA 1-15P	IEC 320/C7	1830	6
2084111M8703(R)	South Africa (Type M)	BS 546	IEC320/C7	1830	6
4033401M8703A(R)	Taiwan (Type A)	CNS690	IEC 320/C7	1830	6
6104112M703A(R)	UK, Hong Kong, Singapore, Gulf States (Type G)	BS1363	IEC 320/C7	2000	7

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May 3, 2024

451G1116F703A(R)	Gulf States (Kuwait, Bahrain, Oman, Qatar, Saudi Arabia, Yemen and the United Arab Emirates (UAE)(Type A)	Nema 1-15P	IEC320/C7	1830	6
6303742M5703(R)	Thailand (Type C)	TIS 166-2549	IEC320/C7	2500	8

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Model:GT-96300-36VV-T2-SP

May 3, 2024

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
	Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Requirements [UL 62368-1:2014 Ed.2] Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Requirements [CSA C22.2#62368-1:2014 Ed.2]
	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
	

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May 3, 2024

	Declaration ДС № EA9C 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
EFFICIENCY LEVEL 	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
 GlobTek, Inc.	JAPAN TUV Rheinland-PSE GlobTek Inc to J60950-1(H26) , J55022(H22),J3000(H25).Please follow the procedure listed in the following link for proper import to Japan: https://www.globtek.com/r2/Szj4Vb
 GMA-515496-EA	RCM certificate GMA-515496-EA; Australia and New Zealand Regulatory Compliance, Mark (http://rcmstandards.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/)

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	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