

Model:GT-21096-WWVV-FW

May 5, 2024

GT-21096-WWVV-FW

Information

Model Number	GT-21096-WWVV-FW
Description	GT-21096-WWVV-FW, ICT/ITE Power Supply, Open Frame/Internal, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, Molex 09-65-2038 3 Position Header Pin 1: Neutral, Pin 2: Removed, Pin 3: Line, Output Rating: 19 Watts, Power rating with convection cooling (W) , 3.3-48V in 0.1V increments, Approvals: UKCA; CB 62368 (pending); CB 62368 (pending); CB 60950; CE; Double Insulation; China RoHS; cRUus; RoHS; Designed to meet EN 60601-1; VCCI; WEEE; EAC; Ukraine; SIQ;

Model Picture



Agency Documents	http://www.globtek.info/certs/GT-21096/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0Oa000000KX0W0EAL
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0Oa000000KX0W0EAL
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	Open Frame/Internal
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ICT/ITE Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	0.5A Max
Wattage (W)	19.0
Vout Range (V)	3.3-48
Efficiency Level	N/A
Ingress Protection	
Size (mm)	

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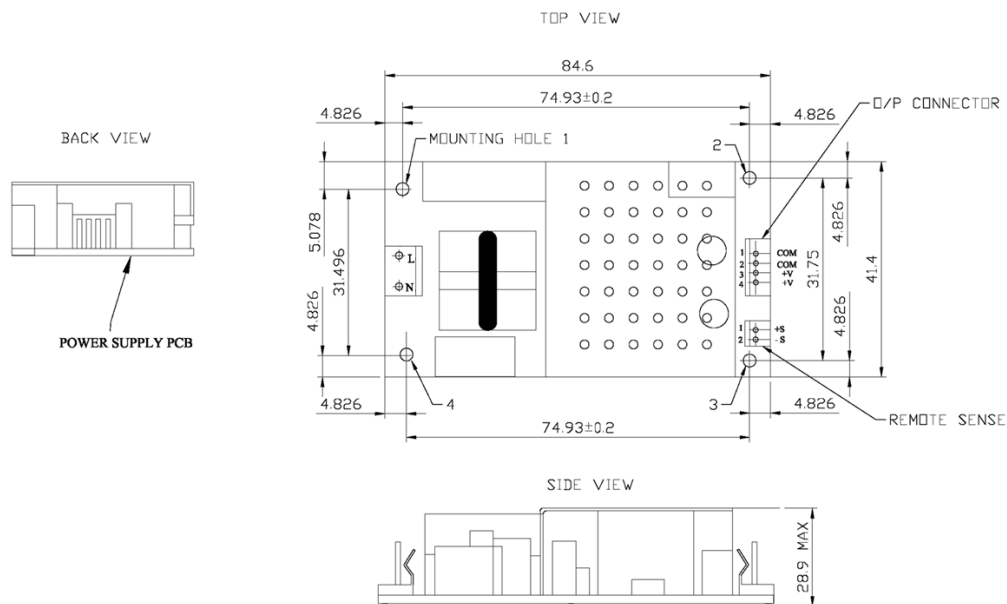
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ENCLOSURE



IMPORTANT INSTALLATION NOTES:

FOR PROPER INSULATION AND GROUNDING RELIABILITY, FOLLOW EITHER OPTIONS BELOW

OPTION 1: USE NYLON 4-40 SCREWS AND NYLON STAND-OFF FOR ALL MOUNTING HOLES AND ADD JUMPER WIRE OPTION SHOWN BELOW FOR EARTH CONNECTION BETWEEN MOUNTING HOLES 4 AND 3.



RING TERMINAL, AMP P/N: 8-34142-5 AWG 18 STRANDED WIRE,
GREEN, 100 mm LENGTH

OPTION 2: USE METALLIC 4-40 SCREWS AND METALLIC STAND-OFF FOR HOLES 3 AND 4 AND USE NYLON 4-40 SCREWS AND NYLON STAND-OFF FOR HOLES 1 AND 2.

OPTION 2 IS ONLY APPLICABLE IF SYSTEM CHASSIS WHERE THE POWER SUPPLY IS MOUNTED IS MADE OUT OF METAL.

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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GT-21096-0903-FW	3.3 V	2.6	8.58	RFQ
GT-21096-1305-X.X-FW	5 V	2.6	13.00	RFQ
GT-21096-1506-X.X-FW	6 V	2.5	15.00	RFQ
GT-21096-1509-1.5-FW	7.5 V	2	15.00	RFQ
GT-21096-1509-X.X-FW	9 V	1.7	15.30	RFQ
GT-21096-1509-FW	9 V	1.7	15.30	RFQ
GT-21096-1512-X.X-FW	12 V	1.25	15.00	RFQ
GT-21096-1815-X.X-FW	15 V	1.2	18.00	RFQ
GT-21096-1818-X.X-FW	18 V	1	18.00	RFQ
GT-21096-1524-X.X-FW	24 V	0.625	15.00	RFQ
GT-21096-1824-X.X-FW	24 V	0.75	18.00	RFQ
GT-21096-1948-X.X-FW	48 V	0.4	19.20	RFQ

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SPECIFICATIONS

A) ELECTRICAL SPECIFICATIONS:

01. Input Voltage: Specified 90-264 Vac, Nameplate rated: 100-240Vac
02. Input Frequency: Specified 47-63 Hz, Nameplate rated 50-60Hz
03. Output Regulation: +/- 5% measured at the output connector
04. Line Voltage Regulation: +/- 1% typical measured at full load
05. Output Ripple (Vp-p): +/- 1% of output voltage, Vp-p, typical
06. Turn-ON/OFF: 5% maximum, 1 mS typical recovery time for 25% step load
07. Turn-ON Delay: 1 Sec, typical
08. Hold-Up Time: 8 mS typical @ nominal input voltage and full load
09. Inrush Current: 30A maximum cold start @ 115 Vac input, 60A maximum cold start @ 230 Vac input
10. Switching Frequency: 100 KHz typical, varies with line and load
11. Efficiency: 75% typical at nominal input and full load

B) PROTECTION

01. Over-Voltage: limited via crowbar method
02. Short Circuit/Over-load: momentary short circuit protected, output will autorecover upon removal of short
03. Input Protection: Input line

C) SAFETY

01. Dielectric Withstand Voltage: 4242 Vdc from primary to secondary
02. Earth Leakage Current: N/A for Class II units, there is no PE Ground pin, so Earth Leakage current is not measured
03. Earth continuity test: <0.1 Ohm or < 0.2 Ohm when with a non-detachable Power Supply cord, Class I Only
04. Touch Current: <0.25mA @ 240Vac input voltage
05. Type of protection against electric shock: class II
06. Degree of safety of application in the presence of flammable anesthetic: not evaluated
07. Mode of operation: Continuous
08. ROHS 2: Complies with EU 2011/65/EU and China SJ/T 11363-2006

D) OTHER:

01. MTBF: 200,000 Hours @ 25°C ambient temperature
02. Operating Temperature: 0°C to 30°C ambient temperature
03. Humidity: 0% to 90% relative humidity
04. Storage Temperature: -10°C to 80°C
05. Cooling: Convection

E) ENCLOSURE

01. Housing: Open Frame
02. Size: 84.6 x 41.4 x 28.9 mm

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DERATING CURVE

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INPUT CONFIGURATION

Description Molex 09-65-2038 3 Position Header Pin 1: Neutral, Pin 2: Removed, Pin 3: Line

Document: http://www.molex.com/pdm_docs/sd/009652038_sd.pdf

Catalog Page: http://www.molex.com/molex/products/datasheet.jsp?part=active/0009652038_PCB_HEADERS.xml


Mates With Part(s):

5195 SPOX™ Crimp Housing, 5239 KK® Crimp Housing

Optional Input Wiring Kits are available:

PN/Ordering No	Length	End A	End B
XHP410070M7MLX3(R)	70	JST XHP-4	Molex 09-93-0300
C810070M6MLX3(R)	60	IEC60320 C8	Molex 09-93-0300
C1410070M6MLX3(R)	60	IEC60320 C14	Molex 09-93-0300

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Approvals

Logo	Description
	Attention Mark / Refer to operating manual for operating and service instructions
No Logo	CB Certificate IEC 60950-1:2005 (2nd Edition), Am 1: 2009, CB report IEC 60950-1:2005 (2nd Edition), Am 1: 2009 and EN 60950-1:2006 + Am 1:2010 + Am 11:2009 + Am 12:2011
No Logo Applicable	CB for IEC 62368-1:2014 (Second Edition)
No Logo Applicable	CB for IEC 62368-1:2014 (Second Edition) (pending)
	CE Certification
	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
	cRUus Registered E170507 CSA C22.2 No. 60950-1-03 1st Ed.
No Logo	Designed to meet EN 60601-1:2006 + A11:2011 +A1:2013 3rd Edition
	
	Declaration ДС № ЕАЭС 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
	Indoor Use Only - Mark is on the label or Molded in the case
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

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	SIQ Mark EN 60950-1 :2006 +A 1 :2010 +A 11 :2009 +A 12:2011 + A2:2013
	UKCA Certification
	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