

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

Model:GT-21097-T2

April 27, 2024

GT-21097-T2

Information

Model Number	GT-21097-T2
Description	GT-21097-T2, ICT/ITE Power Supply, Desktop/External, Regulated Switchmode AC-DC 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: 50 Watts, Power rating with convection cooling (W) , 3.3-48V in 0.1V increments, Approvals: FCC; Ukraine; GOST-R; WEEE; China RoHS; RoHS; CE;
Model Picture	
Agency Documents	http://www.globtek.info/certs/GT-21097/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a00a000000C1a5NEAR
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a00a000000C1a5NEAR
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

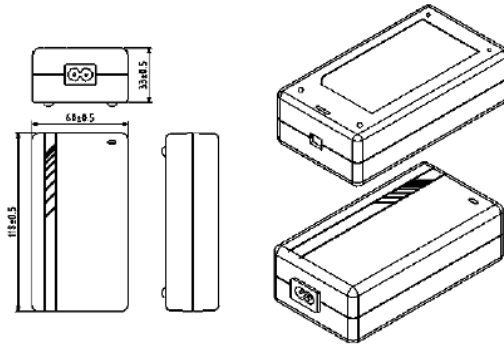
Type	Desktop/External
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ICT/ITE Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	1.6A
Wattage (W)	50.0
Vout Range (V)	3.3-48
Efficiency Level	N/A
Ingress Protection	Indoor Use
Size (mm)	

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ENCLOSURE



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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GT-21097-2003	3.3 V	6	19.80	RFQ
GT-21097-3005-Y.Y	5 V	6	30.00	RFQ
GT-21097-4509-3.0	6 V	5	30.00	RFQ
GT-21097-4509-Y.Y	9 V	5	45.00	RFQ
GT-21097-5012-Y.Y	12 V	4.17	50.04	RFQ
GT-21097-5015-Y.Y	15 V	3.3	49.50	RFQ
GT-21097-5018-Y.Y	18 V	2.8	50.40	RFQ
GT-21097-5024-5.0	19 V	2.63	49.97	RFQ
GT-21097-5024-Y.Y	24 V	2.1	50.40	RFQ
GT-21097-5048-12.0	36 V	1.38	49.68	RFQ
GT-21097-5048-Y.Y	48 V	1.1	52.80	RFQ

PROPRIETARY INFORMATION

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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: 10 mS typical @ nominal input voltage and full load
09. Inrush Current: 20A maximum cold start @ 240Vac input
10. Switching Frequency: 100 KHz typical, varies with line and load

B) PROTECTION

01. Over-Voltage: limited via crowbar method
02. Short Circuit: Hiccup with auto recovery upon removal of short
03. Over-load: Hiccup with auto recovery
04. Input Protection: Input line

C) SAFETY

01. Dielectric Withstand Voltage: 4242 Vdc from primary to secondary (for Class II with functional ground)
02. Earth Leakage Current: <500 uA at 240Vac input voltage
03. MTBF: 200,000 hours @ 25°C ambient temperature
04. Operating Temperature: 0°C to 40°C ambient temperature
05. Humidity: 0% to 90% relative humidity
06. Storage Temperature: -10°C to 80°C
07. ROHS: Complies with EU 2002/95/EC and China SJ/T 11363-2006

D) OTHER:

01. MTBF: 200,000 Hours @ 25°C ambient temperature
02. Operating Temperature: 0°C to 40°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: High impact plastic, 94V0 polycarbonate, non-vented
02. Size: 118 x 60 x 33 + 0.5 mm
03. Markings: Label and/or Pad Printed and/or Molded in the case
04. Green LED for indicating Power Out

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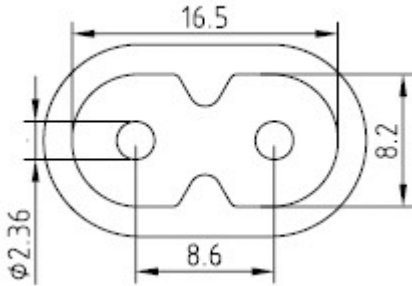
DERATING CURVE

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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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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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OUTPUT CONFIGURATION

Common output connector options:



L Type (Coaxial
5.5x2.5mm plug)



C Type (Coaxial
5.5x2.1mm plug)



K Type (Coaxial
3.5x1.3mm plug)



LL Type (5.5x2.5mm
Locking 760k type)



CL Type (5.5x2.1mm
Locking S761k type)



ML2 Type (Molex
housing 43025-0200)



YL3 Type
(KPPX-3P)



YL4 Type (KPPX-4P)



EJ1/2/3/4/5 (EIAJ
RC-5320A type
connectors)



MSB Type (Micro
USB)



USBC Type (USB
Type C)



Inquire for custom
design

For a comprehensive list of options, [click here](#)

Contact GlobTek for your specific requirements or custom solutions.

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Approvals

Logo	Description
	Test Standards: EN 55032:2012+AC:2013, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 55024:2010
	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
	FCC PART 15 CLASS B
	GOST-R mark for Russia(Document: http://www.globtek.com/html/iso_certificates/GT_GOST-R.pdf). 03/15/2015. Due to lack of demand, GlobTek will not be renewing it's GOST certification. Please contact your sales engineer for pricing on EAC.
	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
	UKCA Certification
	Ukraine UKRSepr (Document: www.globtek.com/html/iso_certificates/GT_Ukraine.pdf)
	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