

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

Model:GTM41133-9048-11.0-T2Pk

July 16, 2019

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Information

Model Number GTM41133-9048-11.0-T2Pk

Description GTM41133-9048-11.0-T2Pk, ITE / Medical Power Supply, 60601-1-4th Ed. , 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: 90 Watts, Power rating with convection cooling (W) , 12-48V in 0.1V increments, Approvals: CB 60950; Book 60601; CE; CE; cETLus ES60601; cETLus 60601-1 3rd; ETL; China RoHS; Double Insulation; GOST-R; IP21; Level V; PSE; RoHS; Ukraine; S-Mark IEC/EN 60601-1; VCCI; WEEE; RCM; CE; Serbia; LPS;

Model Picture



Agency

Documents <http://globtek.info/certs/GTM41133/>

CE

EC-Declaration https://www.globtek.com/pdf/ec_declaration/a0Oa000000LKbArEAL

RoHS/RoHS2

Declaration https://www.globtek.com/pdf/rohs_cert/a0Oa000000LKbArEAL

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

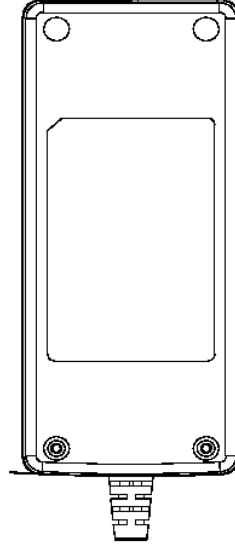
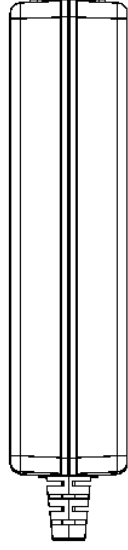
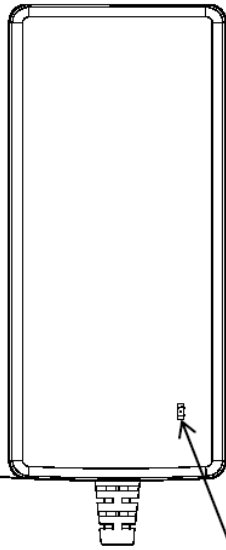
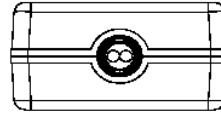
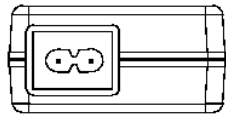
Type	Desktop/External
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ITE / Medical Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	1.5A
Wattage (W)	90.0
Vout Range (V)	12-48
Efficiency Level	V
Ingress Protection	IP21
Size (mm)	

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ENCLOSURE



LED INDICATOR
GREEN = "ON"

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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
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SPECIFICATIONS**A) ELECTRICAL SPECIFICATIONS:**

01. Input Voltage: Specified 90-264 Vac, Nameplate rated: 100-240Vac
02. Input Frequency: Specified 47-400 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% or 150 mV whichever is greater, measured at 20 MHz bandwidth with 0.1 uf ceramic capacitor in parallel with 10 uf electrolytic capacitor connected at the end of the output connector at nominal line
06. Turn-ON/OFF Overshoot: 5% maximum, 1 mS typical recovery time for 25% to 50% step load
07. Turn-ON Delay: 1 sec, maximum @ full load, nominal line
08. Hold-Up Time: 8 mS typical @ nominal input voltage and full load
09. Inrush Current: 30/60A maximum cold start @ 115/230Vac input
10. Switching Frequency: 65 KHz typical
11. A PEAK OF 148Watt FOR 0.5 sec. REPEATING EVERY 2.5 sec. PERMANENT LOAD OF 80WATTS, AVERAGE IS 91.3 Watts

B) PROTECTION

01. Over-Voltage: Electronically Protected Zener clamp across the output
02. Short Circuit: Electronically Protected unit will auto recover upon removal of fault
03. Input Protection: Input line fusing

C) SAFETY

01. Dielectric Withstand Voltage: 5656Vdc 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. Touch Current: Maximum allowed values: 100uA NC(Normal condition) 500uA SFC(single fault condition)
04. Primary to Secondary Isolation: 2 MOPP

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: -20°C to 80°C
05. Cooling: Convection
06. Operating Altitude: 5,000 METERS
07. Operating Atmospheric Pressure: 700 hPa TO 1060hPa
08. ROHS 2: Complies with EU 2011/65/EU and China SJ/T 11363-2006

E) ENCLOSURE

01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
02. Size: 149.38 x 62.6 x 33.5 +/-1.0 mm
03. LED to indicate "Power Out"
04. Markings: Label and/or Pad Printed and/or Molded in the case

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DERATING CURVE

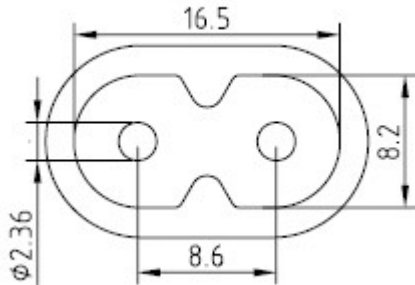
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Input Configuration

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

2094112M703(R) Argentina (Type I)	IRAM 2063	IEC 320/C7	20007
5014112M703A(R) Australian (Type I)	AS 3112	IEC 320/C7	20007
207B4111M8703(R) Brazil (Type N)	NBR14136	IEC 320/C7	18006
4533501M8703(R) China (Type A)	GB 2099.1	IEC 320/C7	18306
2074112M703A(R) European (Type C)	CEE 7/16	IEC 320/C7	20007
2084111M8703(R) India (Type M)	BS 546	IEC 320/C7	18006
451J3401M8703(R) Japan (Type A)	JIS 8303	IEC 320/C7	18306
2044112M703A(R) Korea (Type C)	KS C8305	IEC 320/C7	20007
4511116F703A(R) N. American (Type A)	NEMA 1-15P	IEC 320/C7	18306
4033401M8703A(R) Taiwan (Type A)	CNS690	IEC 320/C7	18306
6104112M703A(R) UK, Hong Kong, Singapore, Gulf States (Type G)	BS1363	IEC 320/C7	20007

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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
	60601-1 3rd Operating Instructions
No Logo Applicable	IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013
LPS	Limited Power Source LPS per CB report
	CE Certification CE Mark: tested to comply with EN 55032.2012+AC.2013 EN 61000-3-2.2014 EN 61000-3-3.2013 EN 60601-1-2.2015 EN 55024.2010
	CE Mark: tested to comply with EN55022:2006/A1:2007 Class B, EN610003-2, EN610003-3 including EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6N EN61000-4-11; EMI: Complies with EN55011 CLASS B and FCC Part 15B - On label or Molded in case
	CE Mark: tested to comply with EN 60601-1-2:2015 Medical electrical equipment Part 1-2: - Mark is on the label or Molded in the case
Conforms to ANSI/AAMI ES 60601-1:2005 Cert.to CAN/CSA Std. C22.2	cETLus ANSI_AAMI ES60601-1_2005
	cETLus-Cert-4007497 ANSI/AAMI ES60601-1:2005 with AMD C1: 2009, AMD C2: 2010 and CAN/CSA-C22.2 No. 60601-1 2008 with COR 2:2011+ANSI/AAMI HA60601-1-11 Ed:1
	CHINA SJ/T 11364-2014, China RoHS Chart: http://en.globtek.com/globtek-rohs.php
 Intertek	Information Technology Equipment Safety Part 1: General Requirements >Valid without technical revision: 01Jan2022< [UL 60950-1:2007 Ed.2 +R:14Oct2014]
	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.
 IP21	Indoor Use Only - Mark is on the label or Molded in the case Ingress Protection: IP21 to IEC60529:2001 Protected against solids objects over 12mm and Protected against vertically falling drops of water
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)
 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: http://en.globtek.com/importing-to-japan.php .

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	<p>SAA-170038-EA RCM certificate SAA-170038-EA; Australia and New Zealand Regulatory Compliance, Mark (http://rcm.standards.org.au/rcmfaq/rcmfaq.htm)</p>
<p>RoHS</p>	<p>Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863-EU (ROHS-3)</p>
	<p>http://www.ce-mark.com/Rohs%20final.pdf Semko S-Mark-Cert-EN60601-1 3rd Edition (http://www.intertek.com/marks/s/)</p>
	<p>Serbia Approval - Conformity mark must be at least 5 mm high.</p>
	<p>Ukraine UKRSepro (Document: www.globtek.com/html/iso_certificates/GT_Ukraine.pdf)</p>
	<p>Japan: Voluntary Control Council for Interference (VCCI)</p>
	<p>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</p>