

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

Model:GTM41133-90VV-x.x-T2

April 29, 2024

IEC 60601-1-11 & 60601-1-2 4th Edition, 60950-1, and UL1310 Compliant 90W Medical power supply (and Class 2 Power Unit/LPS) available in 12-48V outputs.

Information

Model Number	GTM41133-90VV-x.x-T2
Description	On 7/9/14, the FDA added the 4th edition of IEC 60601-1-2 to the list of standards that can be used to show EMC compliance for medical electrical devices and systems. The GTM41133 is certified compliant and additionally qualified as a Class 2 power Unit.
Model Picture	
Agency Documents	http://globtek.info/certs/GTM41133/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0Oa000000HSxmIEAT
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0Oa000000HSxmIEAT
REACH Declaration	https://www.globtek.com/pdf/iso_certificates/REACH.pdf
Conflict Minerals Declaration	https://www.globtek.com/pdf/conflict-minerals.pdf

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

Model:GTM41133-90VV-x.x-T2

April 29, 2024

MODEL PARAMETERS

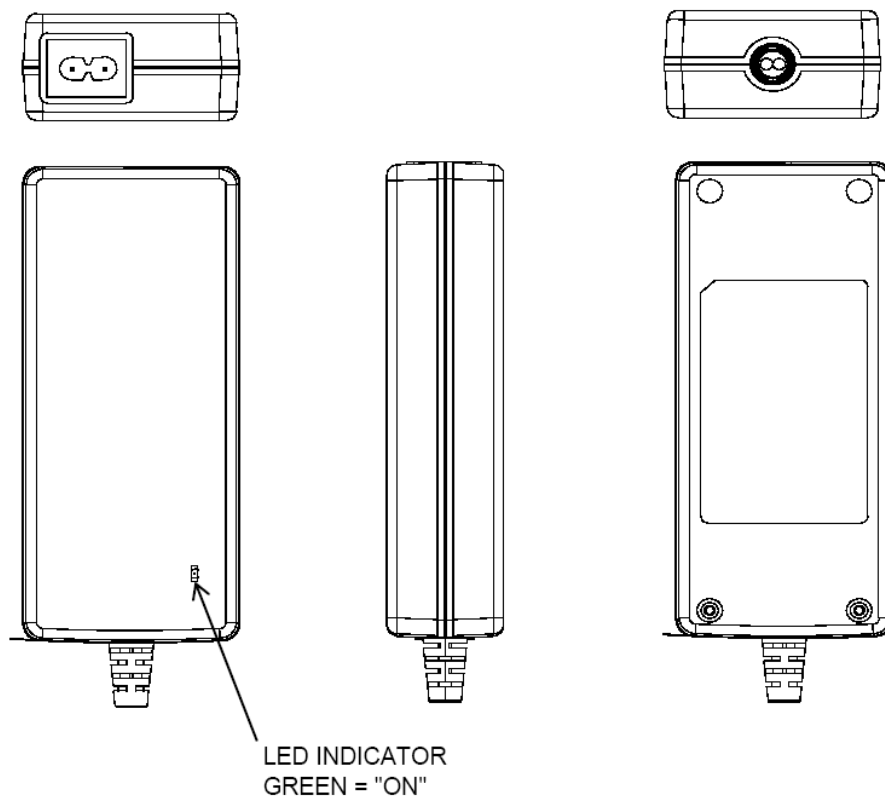
Type	Desktop/External
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ICT / ITE / Medical Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	1.5A
Wattage (W)	90.0
Vout Range (V)	12-48
Efficiency Level	V
Ingress Protection	IP21
Size (mm)	149.38 x 62.6 x 33.5 +/-1.0

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

Model: GTM41133-90VV-x.x-T2

April 29, 2024

ENCLOSURE



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

Model:GTM41133-90VV-x.x-T2

April 29, 2024

RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM41133-9016-4.0-T2	12 V	7.5	90.00	RFQ
GTM41133-9016-1.0-T2	15 V	1.06	15.90	RFQ
GTM41133-9024-5.0-T2	19 V	4.73	89.87	RFQ
GTM41133-9024-T2	24 V	3.75	90.00	RFQ
GTM41133-9048-22.0-T2	26 V	3.46	89.96	RFQ
GTM41133-9048-12.0-T2	36 V	2.5	90.00	RFQ
GTM41133-9048-10.5-T2	37.5 V	2.4	90.00	RFQ
GTM41133-9048-T2	48 V	1.875	90.00	RFQ

PROPRIETARY INFORMATION

PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.

<https://www.globtek.com/ds/2a2QgaEvw8m/G5dAh79c6Uz.html>

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

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

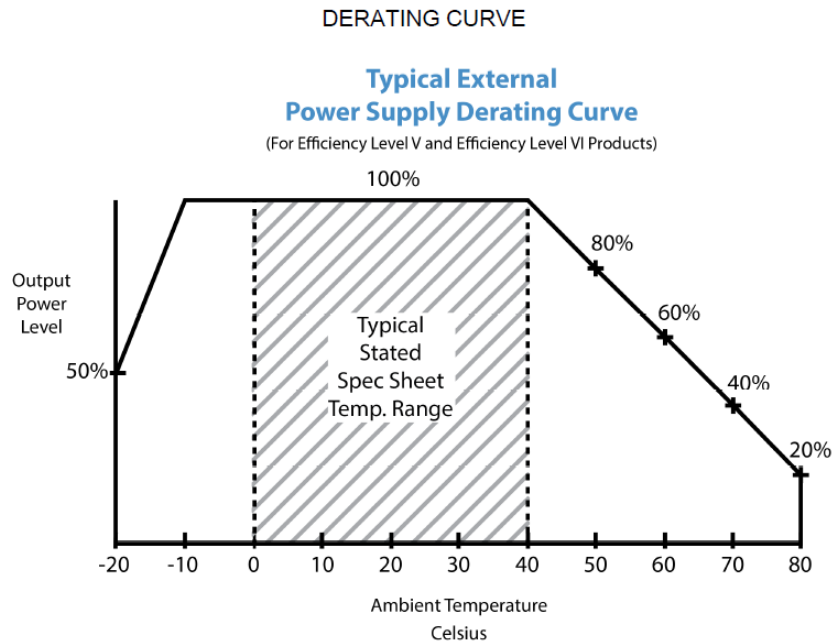
01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
02. Size: 149.38 x 62.6 x 33.5 +/-1.0 mm
03. LED to indicate "Power Out"
04. Markings: Label and/or Pad Printed and/or Molded in the case

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

Model: GTM41133-90VV-x.x-T2

April 29, 2024

DERATING CURVE

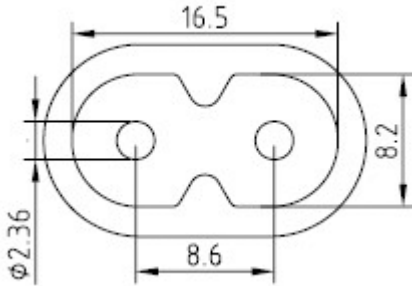


Model:GTM41133-90VV-x.x-T2

April 29, 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

PROPRIETARY INFORMATION

PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.

<https://www.globtek.com/ds/2a2QgaEvv8m/G5dAh79c6Uz.html>

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

Model:GTM41133-90VV-x.x-T2

April 29, 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

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

Model:GTM41133-90VV-x.x-T2

April 29, 2024

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.

Model:GTM41133-90VV-x.x-T2

April 29, 2024

Approvals

Logo	Description
 DC-E-G71-005.2 PRECAUCION: PARA USO EN EQUIPOS ELECTRONICOS SOLAMENTE	IRAM certificateDC-E-G71-005.1 to IEC 62368-1:2014
	60601-1 3rd Operating Instructions
No Logo Applicable	CB report IEC 60601-1: 2005 + CORR. 1 (2006) + CORR. 2 (2007) and or EN 60601-1:2006 3rd Edition 2xMOPP
No Logo	IEC 60601-1: 2005 +A1 and IEC 60601-1-11:2015
No Logo Applicable	IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013
No Logo	IEC 60950-1: 2005 (Second Edition) + Am 1: 2009 + Am 2: 2013
No Logo Applicable	CB for IEC 62368-1:2014 (Second Edition)
	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

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

Model:GTM41133-90VV-x.x-T2

April 29, 2024

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://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
	
	Certification # TC RU AR46.B.75423 Custom Union of Russia, Belarus and Kazakhstan
	Information Technology Equipment Safety Part 1: General Requirements >Valid without technical revision: 01Jan2022< [UL 60950-1:2007 Ed.2 +R:14Oct2014]
	ETL (Brazil) to IEC 62368-1;2014 DOC cert
	Indoor Use Only - Mark is on the label or Molded in the case
IP21	Ingress Protection: IP21 to IEC60529:2001 Protected against solids objects over 12mm and Protected against vertically falling drops of water
	JAPAN TUV R-PSE, Cert. No. JD 50313287, to J60950-1(H26) , J55022(H22),J3000(H25)[DC15?30V]. Please reference the following website for guidelines on PSE regulations: https://www.globtek.com/r2/Szj4Vb

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

Model:GTM41133-90VV-x.x-T2

April 29, 2024

 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50313287, to J60950-1(H26) , J55022(H22),J3000(H25)[DC30~60V]. Please reference the following website for guidelines on PSE regulations: https://www.globtek.com/r2/Szj4Vb
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50469658, to J62368-1(H30) , J55032(H29),J3000(H25)[15V or less]. Please reference the following website for guidelines on PSE regulations: https://www.globtek.com/r2/Szj4Vb
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 (under 6A) 60950
No Logo	Malaysia ST Release Letter GTM41133 IEC 62368-1:2014 (ED.2) No logo 12,15,18,19,24,26,28,36 & 48V only
	Morocco approval to IEC IEC 62368-1:2014
 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
 SAA-170038-EA	RCM certificate SAA-170038-EA; Australia and New Zealand Regulatory Compliance, Mark (http://rcm.standards.org.au/rcmfag/rcmfag.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/)

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

Model:GTM41133-90VV-x.x-T2

April 29, 2024

	Semko S-Mark-Cert-EN60601-1 3.1rd Edition (http://www.intertek.com/marks/s/)
	S-Mark-Cert to IEC 60601-1-11 (First Edition): 2010 EN 60601-1-11:2010 (http://www.intertek.com/marks/s/)
	Serbia Approval - Conformity mark must be at least 5 mm high.
No Logo	SOUTH AFRICAN EMI/EMC SABS
	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