

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

Model:GTMF3058-250VV-T3

May 7, 2024

GTMF3058-250VV-T3

Information

Model Number	GTMF3058-250VV-T3
Description	GTMF3058-250VV-T3, Medical Power Supply, Desktop/External, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C14 AC Inlet Connector, Class I, Earth Ground, Output Rating: 250 Watts, Power rating with convection cooling (W) , 12-56V in 0.1V increments, Approvals: CE; China RoHS; RoHS; Class I; GOST-R; Ukraine; VCCI; WEEE;

Model Picture



Agency Documents	http://en.globtek.com/safety-agency-documents-pending/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0Oa000000Mi5WxEAJ
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0Oa000000Mi5WxEAJ
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

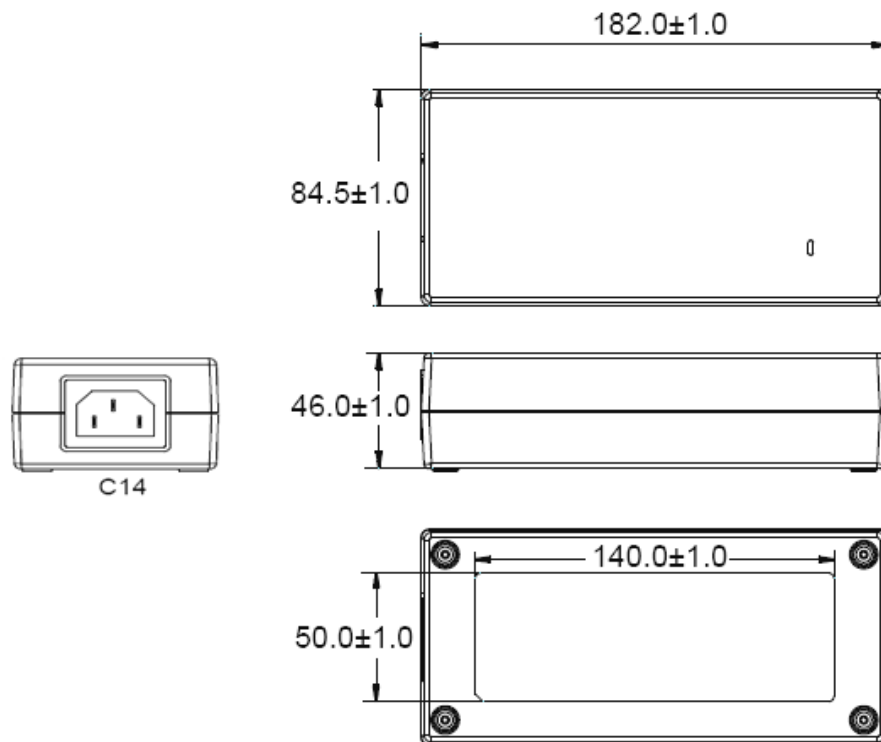
Type	Desktop/External
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	Medical Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	3.5A MAX
Wattage (W)	250.0
Vout Range (V)	12-56
Efficiency Level	USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782
Ingress Protection	IPX0
Size (mm)	182.0*84.5*46.0 mm

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ENCLOSURE



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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTMF3058-16012-T3	12 V	13.33	159.96	RFQ
GTMF3058-22012-T3	12 V	18.33	219.96	RFQ
GTMF3058-20012-T3	12 V	16.66	199.92	RFQ
GTMF3058-18012-T3	12 V	15	180.00	RFQ
GTMF3058-16013-T3	13 V	12.3	159.90	RFQ
GTMF3058-20013-T3	13 V	15.38	199.94	RFQ
GTMF3058-18013-T3	13 V	13.84	179.92	RFQ
GTMF3058-16014-T3	14 V	11.42	159.88	RFQ
GTMF3058-20014-T3	14 V	14.28	199.92	RFQ
GTMF3058-18014-T3	14 V	12.85	179.90	RFQ
GTMF3058-16015-T3	15 V	10.66	159.90	RFQ
GTMF3058-20015-T3	15 V	13.33	199.95	RFQ
GTMF3058-18015-T3	15 V	12	180.00	RFQ
GTMF3058-16016-T3	16 V	10	160.00	RFQ
GTMF3058-22016-T3	16 V	13.75	220.00	RFQ
GTMF3058-20016-T3	16 V	12.5	200.00	RFQ
GTMF3058-18016-T3	16 V	11.25	180.00	RFQ
GTMF3058-16017-T3	17 V	9.41	159.97	RFQ
GTMF3058-20017-T3	17 V	11.76	199.92	RFQ
GTMF3058-20017-T3	17 V	11.76	199.92	RFQ
GTMF3058-18017-T3	17 V	10.58	179.86	RFQ
GTMF3058-16018-T3	18 V	8.88	159.84	RFQ
GTMF3058-20018-T3	18 V	11.11	199.98	RFQ
GTMF3058-18018-T3	18 V	10	180.00	RFQ
GTMF3058-25019-T3	19 V	13.15	249.85	RFQ

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<https://www.globtek.com/ds/cNjpiXb5uZn/MxTsAoYhYZe.html>

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GTMF3058-20019-T3	19 V	10.52	199.88	RFQ
GTMF3058-18019-T3	19 V	9.47	179.93	RFQ
GTMF3058-18020-T3	20 V	9	180.00	RFQ
GTMF3058-25020-T3	20 V	12.5	250.00	RFQ
GTMF3058-23020-T3	20 V	11.5	230.00	RFQ
GTMF3058-20020-T3	20 V	10	200.00	RFQ
GTMF3058-18021-T3	21 V	8.57	179.97	RFQ
GTMF3058-20021-T3	21 V	9.52	199.92	RFQ
GTMF3058-18022-T3	22 V	8.18	179.96	RFQ
GTMF3058-20022-T3	22 V	9.09	199.98	RFQ
GTMF3058-18023-T3	23 V	7.82	179.86	RFQ
GTMF3058-20023-T3	23 V	8.69	199.87	RFQ
GTMF3058-18024-T3	24 V	7.5	180.00	RFQ
GTMF3058-22024-T3	24 V	9.16	219.84	RFQ
GTMF3058-20024-T3	24 V	8.33	199.92	RFQ
GTMF3058-18025-T3	25 V	7.2	180.00	RFQ
GTMF3058-20025-T3	25 V	8	200.00	RFQ
GTMF3058-18026-T3	26 V	6.92	179.92	RFQ
GTMF3058-20026-T3	26 V	7.69	199.94	RFQ
GTMF3058-18027-T3	27 V	6.66	179.82	RFQ
GTMF3058-20027-T3	27 V	7.4	199.80	RFQ
GTMF3058-18028-T3	28 V	6.42	179.76	RFQ
GTMF3058-20028-T3	28 V	7.14	199.92	RFQ
GTMF3058-20028-T3	32 V	6.25	200.00	RFQ
GTMF3058-25032-T3	32 V	7.81	249.92	RFQ
GTMF3058-23032-T3	32 V	7.18	229.76	RFQ
GTMF3058-22032-T3	32 V	6.87	219.84	RFQ

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GTMF3058-20033-T3	33 V	6.06	199.98	RFQ
GTMF3058-20033-T3	34 V	5.88	199.92	RFQ
GTMF3058-20035-T3	35 V	5.71	199.85	RFQ
GTMF3058-20036-T3	36 V	5.55	199.80	RFQ
GTMF3058-25040-4.0-T3	36 V	6.94	249.84	RFQ
GTMF3058-22036-T3	36 V	6.11	219.96	RFQ
GTMF3058-20037-T3	37 V	5.4	199.80	RFQ
GTMF3058-20038-T3	38 V	5.226	198.59	RFQ
GTMF3058-20039-T3	39 V	5.12	199.68	RFQ
GTMF3058-20040-T3	40 V	5	200.00	RFQ
GTMF3058-25040-T3	40 V	6.25	250.00	RFQ
GTMF3058-23040-T3	40 V	5.75	230.00	RFQ
GTMF3058-22040-T3	40 V	5.5	220.00	RFQ
GTMF3058-20041-T3	41 V	4.87	199.67	RFQ
GTMF3058-20042-T3	42 V	4.76	199.92	RFQ
GTMF3058-20044-T3	44 V	4.54	199.76	RFQ
GTMF3058-20045-T3	45 V	4.44	199.80	RFQ
GTMF3058-20046-T3	46 V	4.34	199.64	RFQ
GTMF3058-20047-T3	47 V	4.25	199.75	RFQ
GTMF3058-20048-T3	48 V	4.16	199.68	RFQ
GTMF3058-22048-T3	48 V	4.58	219.84	RFQ
GTMF3058-20049-T3	49 V	4.08	199.92	RFQ
GTMF3058-20050-T3	50 V	4	200.00	RFQ
GTMF3058-25050-T3	50 V	5	250.00	RFQ
GTMF3058-20051-T3	51 V	3.92	199.92	RFQ
GTMF3058-20054-T3	54 V	3.7	199.80	RFQ
GTMF3058-20056-T3	56 V	3.57	199.92	RFQ
GTMF3058-22056-T3	56 V	3.92	219.52	RFQ

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GTMF3058-23056-T3	56 V	4.1	229.60	RFQ
GTMF3058-25056-T3	56 V	4.46	249.76	RFQ

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SPECIFICATIONS

A) ELECTRICAL SPECIFICATIONS:

1. Input Voltage: Specified 90-264 Vac, Nameplate rated 100-240 Vac
2. Input Frequency: Specified 47-63 Hz, Nameplate rated 50-60 Hz
3. Output Regulation: +/- 5% measured at the output connector
4. Line Voltage Regulation: +/- 1% typical measures at full load
5. Ripple & noise: 360 mV, measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.1uF ceramic capacitor & parallel with 47uF aluminum capacitor at full load and nominal line.
6. Turn-On/Turn-Off Overshoot: 5% maximum, 1mS typical recovery time for 25% step load
7. Turn-On Time: ≤3S
8. Hold-Up Time: ≥8.3mS
9. Inrush Current: ≤100A At cold start
10. Switching Frequency: 100 KHz typical
11. Efficiency: Meet CEC Level V, VI

B) PROTECTION

1. Over Voltage Protection Latch off
2. Short Circuit Protection Auto Recovery
3. Over Current Protection Auto Recovery
4. Over Temperature Protection Latch off

C) SAFETY

- 1 Type of protection against electric shock: Class II with function earth (3 pin AC inlet)
2. Degree of protection against ingress of water: IPX0 (ordinary)
3. Dielectric Withstand Voltage: 5656Vdc from primary to secondary
4. Mode of operation: Continuous
5. Earth Leakage Current: Did not exceed 5 mA in NORMAL CONDITION and 10 mA in SINGLE FAULT CONDITION
6. Touch Current: Did not exceed 100uA NC(Normal condition) 500uA SFC(single fault condition)
7. Earth continuity test:<0.1 Ohm or < 0.2 Ohm when with a non-DETACHABLE POWER SUPPLY CORD, Class I Only

D) OTHER:

1. MTBF: >30,000 hours @ 25°C ambient temperature
2. Operating Temperature: 0°C to 40°C ambient temperature
3. Humidity: 5% to 90% relative humidity
4. Storage Temperature: -20°C to 80°C
5. ROHS 2: COMPLIES WITH EU 2011/65/EU AND CHINA SJ/T 11363-2006

E) ENCLOSURE

1. Upper Housing: High impact plastic, 94V0 polycarbonate, non-vented
2. Lower Housing: High impact plastic, 94V0 polycarbonate, non-vented
3. Size: 182Lx84.5Wx46H (mm)
4. Weight: 1000g

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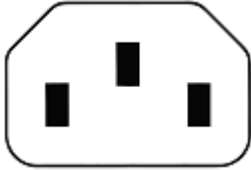
DERATING CURVE

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INPUT CONFIGURATION

Description IEC 60320/C14 AC Inlet Connector, Class I, Earth Ground



Mates with IEC 60320/C13 Plug

Optional Locking IEC60320 Receptacle and cord option available on some models by request.:



[Standard International IEC 320/C13 Cordsets](#)

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

Stock Power Supply Cords

Part Number/ Link	Country	Plug	Termination	Length (mm)	(Ft)
3021457F701(R)	N. American (Type B)	NEMA 5-15P	IEC 320/C13	2150	7
1191068F0701(R)	N. American (Type B)	NEMA 5-15P Hospital	IEC 320/C13	2459	8
2194272M5701-T(R)	Argentina (Type I)	IRAM 2073	IEC 320/C13	2500	8
5502022M5701A(R)	Australian (Type I)	AS3112 / 3 PRONG	IEC 320/C13	2500	8
204B4272M5701(R)	Brazil (Type N)	BRAZIL	IEC 320/C13	2500	8
6023602M5701(R)	China (Type I)	CCC GR2099	IEC 320/C13	2500	8
G8014272M5701(R)	Danish (Type K)	AFSNIT SECTION 107-2-D1	IEC 320/C13	2500	8
			IEC		

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23144272M5701-T(R)	Europe (Type E)	CEE 7/7	320/C13	2500	8
23134272M5701EUKR(R)	Europe/Korea Combo (Type E)	CEE 7/7 / KSC8305	IEC 320/C13	2500	8
205IN4272M5701(R)	India (Type D)	India IS 1293 (also known as IA16A3 or BS546)	IEC 320/C13	2500	8
208IN4272M5701(R)	India (Type M)	India IS 1293 (also known as IA16A3 or BS546)	IEC 320/C13	2500	8
377C4272M5701(R)	Israel (Type H)	ISL 377C	IEC 320/C13	2500	8
23024272M5701(R)	Italy (Type L)	CEI 23-16/VII	IEC 320/C13	2500	8
3003339F701(R) [3x1.25mm2]	Japan (Type B)	JIS 8303 / 3 PINS	IEC 320/C13	2500	8
3003068F2701-HK(R) [3 x 2.0mm2]					
302J115J6F0701J(R)	North America / Japan (Type B – 12A)	NEMA 5-15P (cULus approved), Japan JIS C 8303 (PSE Approved)	IEC 320/C13	1830	6
302J104J6F0701J(R)	North America / Japan (Type B – 15A)	NEMA 5-15P (cULus approved), Japan JIS C 8303 (PSE Approved)	IEC 320/C13	1830	6
302JT104J9F0701JT(R)	North America / Japan / Taiwan (Type B – 15A)	NEMA 5-15P (cULus approved), Japan JIS C 8303 (PSE Approved), Taiwan CNS 6797 (BSMI Approved)	IEC 320/C13	2800	9
2313K3432M5701(R)	Korea (Type F)	KS C 8305	IEC 320/C13	2500	8
5804272M5701(R)	Russia (Type F)	GOST 7396	IEC 320/C13	2500	8
2084272M5701(R)	South Africa (Type M)	South Africa SABS164-1 (16A type)	IEC 320/C13	2500	8
23214272M5701(R)	Switzerland (Type J)	SEV 1011	IEC 320/C13	2500	8
3003322M5701(R)	Taiwan (Type B)	BSMI	IEC 320/C13	2500	8
6363762M5701(R)	Thailand (Type O)	TIS 166-2549	IEC 320/C13	2500	8
PZ0800100-2M5BK13H(R)	UK, Hong Kong, Singapore, Gulf States (Type G)	BS 1363A	IEC 320/C13	2500	8
7055002M5701A(R)	International	IEC 320 C14-C13	IEC 320/C13	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
	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
	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.
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 UKR Sepro (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