

Model:GTM43007-AWWVV-F

May 20, 2024

2" x 3" (2x3") Ultra Compact AC-DC Switching Power Supplies available in 60601-1 Medical, 60950-1 ITE, and 60335-1 Household with Class I and up to 60W output power

Information

Model Number	GTM43007-AWWVV-F
Description	GTM43007-AWWVV-F, ICT / ITE / Medical Power Supply, 60601-1-4th Ed. , Open Frame/Internal, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, Molex 26-60-4030 3 Position Header Pin 1: Line, Pin 2: Removed, PIN 3: Neutral, Output Rating: 60 Watts, Power rating with convection cooling (W) , 5-48V in 0.1V increments, Approvals: LPS 60950; VCCI; CB 62368; ETL 62368; EAC; UKCA; Conforms to 62368-1; CCC; Book 60601; China RoHS; Class I; RoHS; Ukraine; WEEE; CE; CB 60601-1 2MOPP (6W max); CE; FCC; CB 60950; CB EN/IEC 60335-1; cETLus; cETLus ES60601; cETLus 60601-1 3rd; Level V; WDaE; Fuse 60335; Fuse 60335;

Model Picture



Agency Documents	http://www.globtek.info/certs/GTM43007/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a00a000000K8gLUEAZ
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a00a000000K8gLUEAZ
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 / Medical Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	1.5A
Wattage (W)	60.0
Vout Range (V)	5-48
Efficiency Level	N/A
Ingress Protection	N/A
Size (mm)	76.2x50.8x23.6 for 5V-14V models, 76.2x50.8x22.5 for 15V-48V modelsTop Diagram i

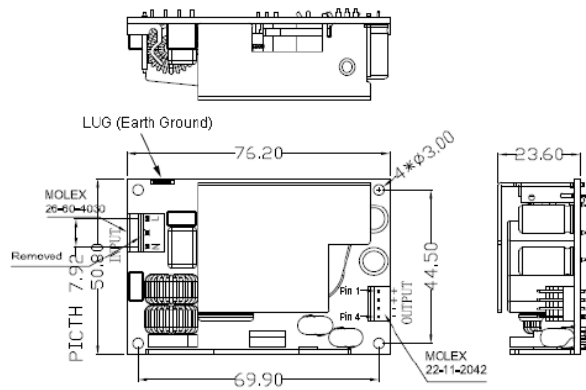
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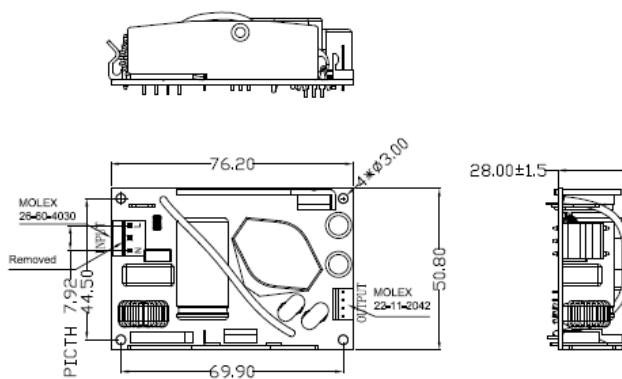
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ENCLOSURE

Top Diagram is for 5V-14V models, Bottom Diagrams are for 15V-48V models



F2 grounding

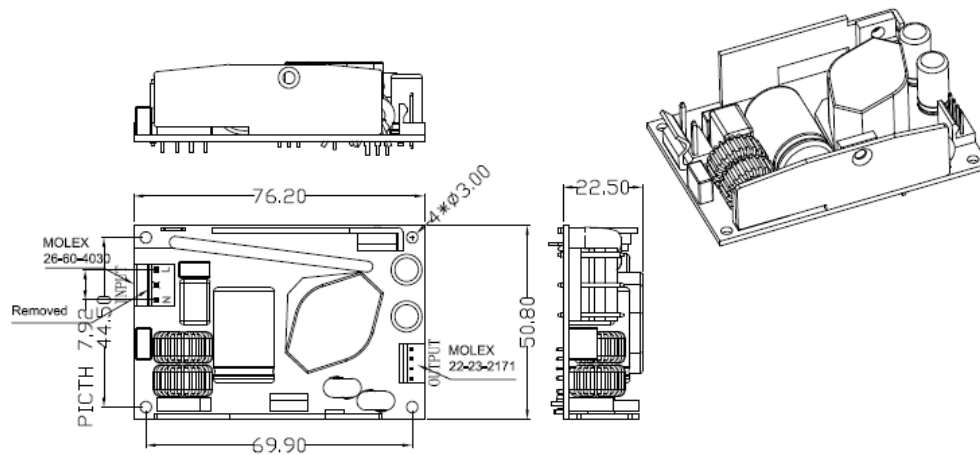


E1 grounding

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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM43007-A3005-F	5 V	6	30.00	RFQ
GTM43007-A3007-1.0-F	6 V	5	30.00	RFQ
GTM43007-A3007-F	7 V	4.28	29.96	RFQ
GTM43007-A3809-1.5-F	7.5 V	5	37.50	RFQ
GTM43007-A4509-F	9 V	5	45.00	RFQ
GTM43007-A4512-2.0-F	10 V	4.5	45.00	RFQ
GTM43007-A6012-F	12 V	5	60.00	RFQ
GTM43007-A4512-F	12 V	3.75	45.00	RFQ
GTM43007-A6015-F	15 V	4	60.00	RFQ
GTM43007-A6018-1.0-F	17 V	3.53	60.01	RFQ
GTM43007-A6018-F	18 V	3.33	59.94	RFQ
GTM43007-A1018-F	18 V	0.555	9.99	RFQ
GTM43007-A6024-4.0-F	20 V	3	60.00	RFQ
GTM43007-A6024-F	24 V	2.5	60.00	RFQ
GTM43007-A6036-6.0-F	30 V	2	60.00	RFQ
GTM43007-A6036-F	36 V	1.66	59.76	RFQ
GTM43007-A6048-8.0-F	40 V	1.5	60.00	RFQ
GTM43007-A6048-F	48 V	1.25	60.00	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: +/- 3% measured at the output connector
04. Line Voltage Regulation: +/- 0.5% maximum 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 a low impedance 47 uf electrolytic capacitor connected 3" from the output connector .
06. Turn-ON/OFF: 5% maximum, 1 mS typical recovery time for 25% step load
07. Turn-ON Delay: 3 Sec max
08. Hold-Up Time: 8 mS typical @ nominal input voltage and full load
09. Inrush Current: 80A maximum @ 115 Vac input, 160A maximum @ 230 Vac input
10. Switching Frequency: 65 KHz typical
11. Efficiency: 87% @ 115Vac, 89% @ 230Vac typical at full load
12. No Load Power: < 300mW @ 230Vac

B) PROTECTION

01. Overvoltage Protection: 110% to 130% of nominal output voltage, and less than 60Vdc
02. Short Circuit/Over-load: momentary short circuit protected, output will auto recover upon removal of short
03. Input Protection: Input line fusing and 300Vac MOV

C) SAFETY

01. Dielectric Withstand Voltage: 4000Vac / 5656Vdc from primary to secondary
02. [Output Isolation Options](#): Class I or Class II
03. Earth Leakage Current: Does not exceed 300uA in NORMAL CONDITION and 1000uA in SINGLE FAULT CONDITION
04. Output Leakage Current: Does not exceed 75uA NC(Normal condition) 300uA SFC(single fault condition)
05. Means of Protection: 2 x MOPP
06. Compliant Standards: See listings at end of this drawing for specifics

D) EMC

EN 60601-1-2, 4th edition

Emissions, per EN 55032, EN 61000-6-3, EN 61000-6-4, CISPR11 and CISPR22

Conducted Emissions: Class B, FCC Part 15, Class B

Radiated Emissions: Class B, FCC Part 15, Class B

Line Frequency Harmonics EN61000-3-2, Class A

Voltage Fluctuations/Flicker EN61000-3-3

Immunity, per EN 55024, EN 61000-6-1, EN 61000-6-2

Static Discharge Immunity EN61000-4-2, 10kV Contact Discharge, 20kV air discharge

Radiated RF Immunity EN61000-4-3, 10V/m 80-1000MHz, 3V/m 1-2.7GHz, 80% 1KHz AM.

EFT/Burst Immunity EN61000-4-4, 4kV/100kHz.

Line Surge Immunity EN61000-4-5, 2kV differential, 4kV common-mode

Conducted RF Immunity EN61000-4-6, 3Vrms, 80% 1KHz AM

Power Frequency Magnetic Field Immunity EN61000-4-8, 3A/m

Voltage Dip Immunity EN61000-4-11, Criteria

PROPRIETARY INFORMATION

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<https://www.globtek.com/ds/ixKeidTACwN/q43SNqPbY8h.html>

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E) OTHER

- 01. MTBF: 1,000,000 Hours @ 45°C ambient temperature, Full Load
- 02. Operating Temperature: -10°C to 45°C ambient temperature
- 03. Humidity: 0% to 95% relative humidity
- 04. Storage Temperature: -30°C to 80°C
- 05. Cooling: Convection
- 06. Elevation: 5000M
- 07. ROHS 2: Complies with EU 2011/65/EU and China SJ/T 11363-2006

F) MECHANICAL FORMAT

- 01. Type: Open Frame
- 02. Size: A suffix version, (2"x3"), 76.2 x 50.8 x 30.5 mm
- 03. Size: B suffix version, (2"x4"), 101.6 x 50.8 x 30.5 mm
- 04. Size: C suffix version, (3"x5"), 127.0 x 76.2 x 30.5 mm

G) SPECIAL OPTIONS

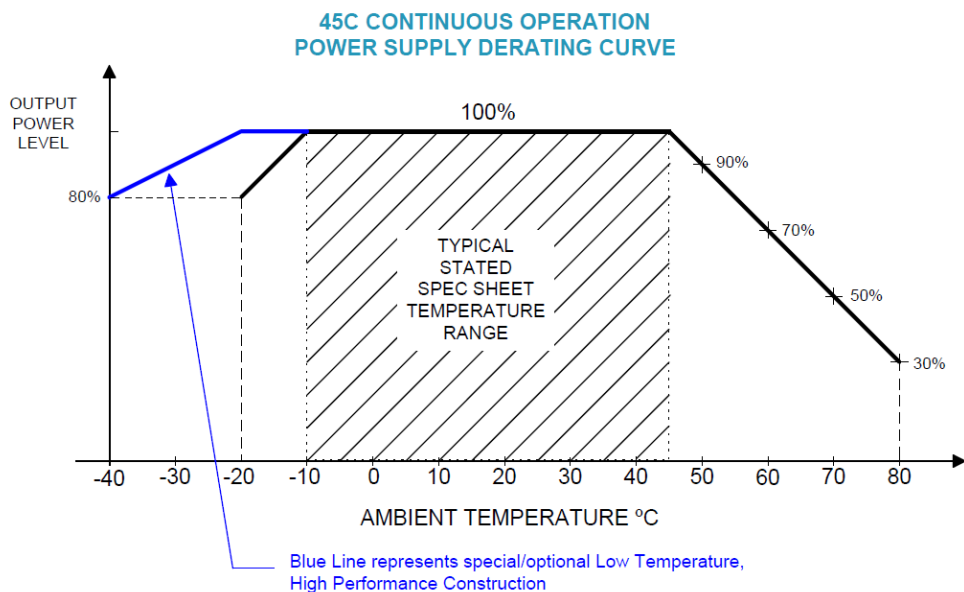
- 01. Custom Label Markings
- 02. Short term Output Surge Capability
- 03. Reduced Leakage Current versions
- 04. Tightened output voltage tolerance
- 05. Reduced output ripple level
- 06. High Rel PCB laminate with Plated through Holes for IPC610 Class 2 Compliance
- 07. Low Temperature operation, down to -40°C
- 08. Quasi Constant Current Output, for Lead-Acid Battery Charger Applications
- 09. Special Input or Output Connectors
- 10. Over-Temperature Protection, Latched Shut-Down

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DERATING CURVE



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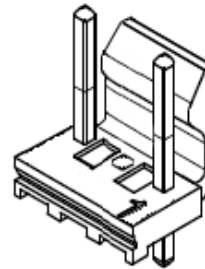
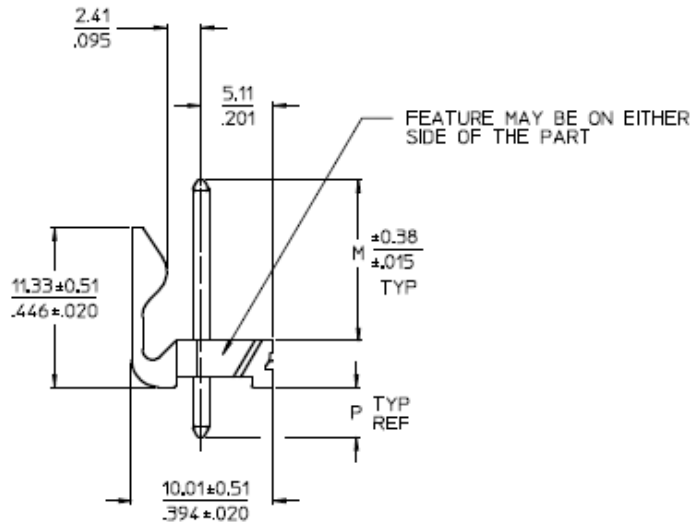
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INPUT CONFIGURATION

Description

Molex 26-60-4030 3 Position Header Pin 1: Line, Pin 2: Removed, PIN 3: Neutral



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

Custom lengths, construction, cable types, ferrites, filters, and termination available upon request.

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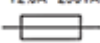
Approvals

Logo	Description
	Book 60335 up to 36 Volts
	60601-1 3rd Operating Instructions
No Logo Applicable	CB report IEC60601-1 2005 A1+C1+C2 2016-2-4 and or EN 60601-1:2006 3.1rd Edition 2xMOPP (6W max)
No Logo	CB Report EN60950-1
No Logo Applicable	CB for IEC 62368-1:2014 (Second Edition)
No Logo Applicable	CB to 60335-1 5th Edition (Safety of Household and Similar Electrical Appliances, Part 1: General Requirements) CB Report/ Certificate IEC 60335-1:2010 Up to 36 volts only
	CCC Altitude up to 5000 m GB17625.1-2012, GB4943.1-2011, GB/T9254-2008 for GT*43007
	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 EN 60601-1-2:2015 Medical electrical equipment Part 1-2: - Mark is on the label or Molded in the case
	Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Requirements [UL 62368-1:2014 Ed.2] Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Requirements [CSA C22.2#62368-1:2014 Ed.2]

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Conforms to ANSI/AAMI ES 60601-1:2005 Cert.to CAN/CSA Std. C22.2	cETLus ANSI_AAMI ES60601-1_2005
Conforms to ANSI/UL Std. 60950-1 Cert.to CAN/CSA Std. C22.2 NO. 60950-1	Conforms to ANSI/UL Std. 60950-1 2nd Edition Cert. to CAN/CSA Std.C22.2 NO.60950-1 2nd Edition
	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
	Declaration ДС № EAЭC 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
	FCC PART 15 CLASS B
T2.0A 250VAC 	Fuse 60335 T2.0A 250VAC Up to 36 volts
	Indoor Use Only - Mark is on the label or Molded in the case
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 60950
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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	UKCA Certification
 10276	Ukraine UKRSepro (Document: www.globtek.com/html/iso_certificates/GT_Ukraine.pdf)
	Japan: Voluntary Control Council for Interference (VCCI)
WDaE	Appliances can be used in warm damp equable climates
	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