

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

Model:GTM41060-25VV-FW-IM

November 27, 2020

## GTM41060-25VV-FW-IM

### Information

Model Number	GTM41060-25VV-FW-IM
Description	GTM41060-25VV-FW-IM, 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 09-65-2038 3 Position Header Pin 1: Neutral, Pin 2: Removed, Pin 3: Line, Output Rating: 25 Watts, Power rating with convection cooling (W) , 3.3-48V in 0.1V increments, Approvals: cUR (up to 30V only); UKCA; cRUus; NEMKO 60950; cRUus (up to 30V); CE; FCC; VCCI; China RoHS; Double Insulation; Ukraine; Level IV; WEEE; RoHS; GOST-R; CB 60601-1 2MOPP (up to 30V); Designed to meet EN 60950-1; SIQ (up to 30V only); 2MOPP; CE; CB 60950(up to 30V only);

### Model Picture



Agency Documents	<a href="http://www.globtek.info/certs/GTM41060/">http://www.globtek.info/certs/GTM41060/</a>
CE EC-Declaration	<a href="https://www.globtek.com/pdf/ec_declaration/a00a000000HSxXOEA1">https://www.globtek.com/pdf/ec_declaration/a00a000000HSxXOEA1</a>
RoHS/RoHS2 Declaration	<a href="https://www.globtek.com/pdf/rohs_cert/a00a000000HSxXOEA1">https://www.globtek.com/pdf/rohs_cert/a00a000000HSxXOEA1</a>
REACH Declaration	<a href="https://www.globtek.com/pdf/iso_certificates/REACH.pdf">https://www.globtek.com/pdf/iso_certificates/REACH.pdf</a>
Conflict Minerals Declaration	<a href="https://www.globtek.com/pdf/conflict-minerals.pdf">https://www.globtek.com/pdf/conflict-minerals.pdf</a>

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**MODEL PARAMETERS**

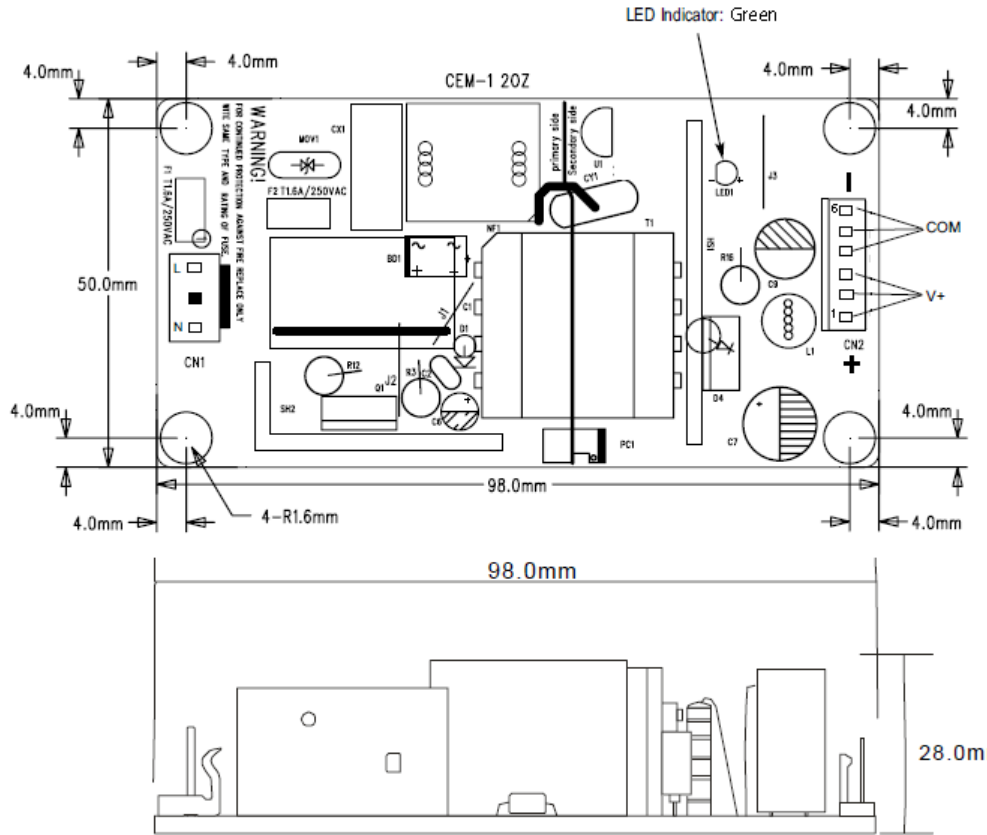
Type	Open Frame/Internal
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ITE / Medical Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	0.6 A
Wattage (W)	25.0
Vout Range (V)	3.3-48
Efficiency Level	Meets/Exceeds for Medical
Ingress Protection	
Size (mm)	98*50*28

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**ENCLOSURE**



NOTE: pin numbers on output connector do not match naming convention from Molex, they are reversed. Beware of this when specifying and wiring the mating connector.

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**RATING TABLE**

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM41060-1003-FW	3 V	2.6	7.80	<a href="#">RFQ</a>
GTM41060-1505-FW	5 V	3	15.00	<a href="#">RFQ</a>
GTM41060-1706-FW	6 V	2.8	16.80	<a href="#">RFQ</a>
GTM41060-1809-FW	9 V	2	18.00	<a href="#">RFQ</a>
GTM41060-2512-FW	12 V	2.08	24.96	<a href="#">RFQ</a>
GTM41060-2515-FW	15 V	1.66	24.90	<a href="#">RFQ</a>
GTM41060-2518-FW	18 V	1.38	24.84	<a href="#">RFQ</a>
GTM41060-2520-FW	20 V	1.25	25.00	<a href="#">RFQ</a>
GTM41060-2524-FW	24 V	1.04	24.96	<a href="#">RFQ</a>
GTM41060-2530-FW	30 V	0.83	24.90	<a href="#">RFQ</a>
GTM41060-2548-FW	48 V	0.52	24.96	<a href="#">RFQ</a>

## 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 measures 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 output connector at nominal line
06. Turn-On/Turn-Off Overshoot: 5% maximum, 1mS typical recovery time for 25% step load
07. Turn-On Delay: 1 second typical
08. Hold-Up Time: 8mS typical @ nominal input voltage & full load
09. Inrush Current: 30A typical @ 115Vac input ; 60A typical @ 230Vac input
10. Switching Frequency: 66.5 KHz typical
11. Current Limited Option: Models numbers containing CC are "Current Limited" to rated output current with a tolerance of +/-10%

### B) PROTECTION

1. Over-Voltage: Electronically Protected, unit will recover upon removal of fault
2. Short Circuit: Electronically Protected, unit will recover upon removal of fault
3. Input Protection: Input line fusing

### C) SAFETY

1. Dielectric Withstand Voltage: 5656Vdc from primary to secondary
2. Earth Leakage Current: N/A for Class II units, there is no PE Ground pin, so Earth Leakage current is not measured
3. Touch Current: Maximum allowed values: 100uA NC(Normal condition) 500uA SFC(single fault condition)

### D) OTHER:

1. MTBF: 200,000 hours @ 25°C ambient temperature
2. Operating Temperature: 0°C to 40°C ambient temperature  
Optional Operating Temperature: -5°C to 40°C ambient temperature (RFP4385)
3. Humidity: 0% to 90% relative humidity
4. Maximum Altitude is 3000M
5. Storage Temperature: -10°C to 80°C
6. ROHS 2: Complies with EU 2011/65/EU and China SJ/T 11363-2006

### E) ENCLOSURE

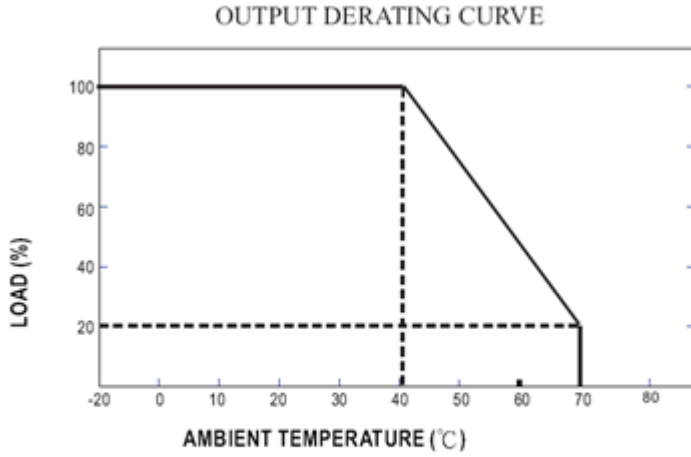
1. Size: 98\*50\*28 +/-0.5 mm
2. Green LED indicator for power "Power Out"

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## DERATING CURVE



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**INPUT CONFIGURATION**

 Description Molex 09-65-2038 3 Position Header Pin 1: Neutral, Pin 2: Removed, Pin 3: Line

 Document: [http://www.molex.com/pdm\\_docs/sd/009652038\\_sd.pdf](http://www.molex.com/pdm_docs/sd/009652038_sd.pdf)

 Catalog Page: [http://www.molex.com/molex/products/datasheet.jsp?part=active/0009652038\\_PCB\\_HEADERS.xml](http://www.molex.com/molex/products/datasheet.jsp?part=active/0009652038_PCB_HEADERS.xml)

**Mates With Part(s):**
[5195](#) SPOX™ Crimp Housing, [5239](#) KK® Crimp Housing

Optional Input Wiring Kits are available:





PN/Ordering No	Length	End A	End B
<a href="#">XHP410070M7MLX3(R)</a>	70	JST XHP-4	Molex 09-93-0300
<a href="#">C810070M6MLX3(R)</a>	60	IEC60320 C8	Molex 09-93-0300
<a href="#">C1410070M6MLX3(R)</a>	60	IEC60320 C14	Molex 09-93-0300

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## Approvals









Logo	Description
2MOPP	2 x MOPP (Means of Patient Protection) marked with 2MOPP near model name
No Logo Applicable	CB report IEC 60601-1: 2005 + CORR. 1 (2006) + CORR. 2 (2007) and or EN 60601-1:2006 3rd Edition 2xMOPP (up to 30V)
No Logo	CB Certificate IEC 60950-1:2005 (2nd Edition), Am 1: 2009, CB report IEC 60950-1:2005 (2nd Edition), Am 1: 2009 and EN 60950-1:2006 + Am 1:2010 + Am 11:2009 + Am 12:2011 (up to 30V only)
	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 EN61000-3-2, EN61000-3-3 and EN50082-1, including EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11, EN61001-1-2-2007 EMI: Complies with EN55011 CLASS B and FCC Part 15 B
	CHINA SJ/T 11364-2014, China RoHS Chart: <a href="http://en.globtek.com/globtek-rohs.php">http://en.globtek.com/globtek-rohs.php</a>
	ANSI/AAMI ES60601-1: A1:2012, C1:2009/(R)2012 and A2:2010/(R)2012, CSA CAN/CSA-C22.2 NO. 60601-1:14 up to 30V only
	cRUus UL Recognized Component E172861 3rd Edition w-RM ANSI-AAMI ES60601-1 (2005 + C1:09 + A2:10) and CAN-CSA-C22.2 No. 60601-1 (2008)
	cRUus Registered E170507 CSA C22.2 No. 60950-1 2nd Ed. (up to 30V)
No Logo	Designed to meet EN 60950-1 :2006+Am 1:2010+Am 11 :2009+Am 12:2011+A2:2013
	FCC PART 15 CLASS B



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NO LOGO	GOST-R mark for Russia (Document: <a href="http://www.globtek.com/html/iso_certificates/GT_GOST-R.pdf">http://www.globtek.com/html/iso_certificates/GT_GOST-R.pdf</a> )
	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)
	NEMKO EN60950-1:2006, A11, A1, A12,A2
RoHS	Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863-EU (ROHS-3) <a href="http://www.ce-mark.com/Rohs%20final.pdf">http://www.ce-mark.com/Rohs%20final.pdf</a>
	IEC 60601-1:2005 (Third Edition) + CORR. 1:2006 + CORR. 2:2007 + A1:2012 (or IEC 60601-1: 2012 reprint) up to 30V only
	UKCA Certification
 10276	Ukraine UKRSepro (Document: <a href="http://www.globtek.com/html/iso_certificates/GT_Ukraine.pdf">www.globtek.com/html/iso_certificates/GT_Ukraine.pdf</a> )
	Japan: Voluntary Control Council for Interference (VCCI)
	WEEE: Complies with EU 2012/19/EU ( <a href="http://ec.europa.eu/environment/waste/weee/index_en.htm">http://ec.europa.eu/environment/waste/weee/index_en.htm</a> ) Mark is on the label or Molded in the case