

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

Model:GTM96700-BWWVV-F

June 2, 2020

## GTM96700-BWWVV-F

### Information

Model Number	GTM96700-BWWVV-F
Description	GTM96700-BWWVV-F, Medical Power Supply, Open Frame/Internal, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, Molex 26-60-4050 5 Position Header Pin 1: Gnd, Pin 2: Removed, PIN 3: Neutral, Pin 4: removed, Pin 5: Line, Output Rating: 70 Watts, Power rating with convection cooling (W) , 5-56V in 0.1V increments, Approvals: ETL; ETL; CB 60601-1 2MOPP; CB 62368; S-Mark IEC/EN 60601-1 60950; CB 60950; Morocco; CE; China RoHS; Class I; EAC; RoHS; Ukraine; VCCI; WEEE;
Model Picture	
Agency Documents	<a href="http://www.globtek.info/certs/GTM96700/">http://www.globtek.info/certs/GTM96700/</a>
CE EC-Declaration	<a href="https://www.globtek.com/pdf/ec_declaration/a00a000000MEOnCEAH">https://www.globtek.com/pdf/ec_declaration/a00a000000MEOnCEAH</a>
RoHS/RoHS2 Declaration	<a href="https://www.globtek.com/pdf/rohs_cert/a00a000000MEOnCEAH">https://www.globtek.com/pdf/rohs_cert/a00a000000MEOnCEAH</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>

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

Model:GTM96700-BWWVV-F

June 2, 2020

**MODEL PARAMETERS**

Type	Open Frame/Internal
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	Medical Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	2.0A
Wattage (W)	70.0
Vout Range (V)	5-56
Efficiency Level	N/A
Ingress Protection	
Size (mm)	101.6*50.8*30.5

**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.

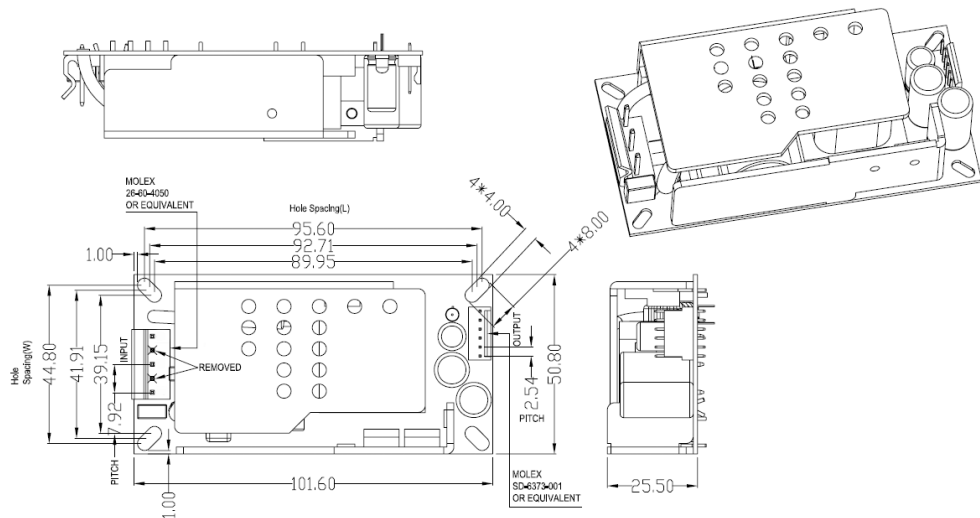
<http://en.globtek.com/datasheet/id/a0Oa000000ME0nc>

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

Model:GTM96700-BWWVV-F

June 2, 2020

**ENCLOSURE**



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

Model:GTM96700-BWWVV-F

June 2, 2020

**RATING TABLE**

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM96700-B4005-F	5 V	8	40.00	<a href="#">RFQ</a>
GTM96700-B4806-F	6 V	8	48.00	<a href="#">RFQ</a>
GTM96700-B4907-F	7 V	7	49.00	<a href="#">RFQ</a>
GTM96700-B497.5-F	7.5 V	6.53	48.98	<a href="#">RFQ</a>
GTM96700-B4909-F	9 V	5.44	48.96	<a href="#">RFQ</a>
GTM96700-B5410-F	10 V	5.42	54.20	<a href="#">RFQ</a>
GTM96700-B6012-F	12 V	5	60.00	<a href="#">RFQ</a>
GTM96700-B6512-F	12 V	5.41	64.92	<a href="#">RFQ</a>
GTM96700-B6515-F	15 V	4.33	64.95	<a href="#">RFQ</a>
GTM96700-B6218-F	18 V	3.44	61.92	<a href="#">RFQ</a>
GTM96700-B6518-F	18 V	3.61	64.98	<a href="#">RFQ</a>
GTM96700-B6519-F	19 V	3.42	64.98	<a href="#">RFQ</a>
GTM96700-B6520-F	20 V	3.25	65.00	<a href="#">RFQ</a>
GTM96700-B6524S-F	24 V	2.708	64.99	<a href="#">RFQ</a>
GTM96700-B6524-F	24 V	2.708	64.99	<a href="#">RFQ</a>
GTM96700-B6530-F	30 V	2.167	65.01	<a href="#">RFQ</a>
GTM96700-B6836-F	36 V	1.889	68.00	<a href="#">RFQ</a>
GTM96700-B7048-F	48 V	1.458	69.98	<a href="#">RFQ</a>
GTM96700-B7056-F	56 V	1.25	70.00	<a href="#">RFQ</a>

## SPECIFICATIONS

### A) ELECTRICAL SPECIFICATIONS:

01. Input Voltage: Specified 90-264 Vac, Nameplate rated: 100-240Vac, with optional 90-305Vac, Nameplate rated: 100-277Vac
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% of output voltage, Vp-p, max
06. Turn-ON/OFF: 5% maximum, 1 mS typical recovery time for 25% step load
07. Turn-ON Delay: 1 Sec max
08. Hold-Up Time: 10 mS typical @ nominal input voltage and full load
09. Inrush Current: 30A maximum @ 115 Vac input, 60A 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 100uA 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, 4<sup>th</sup> 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

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.

<http://en.globtek.com/datasheet/id/a0Oa000000MEONc>

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

Model:GTM96700-BWWVV-F

June 2, 2020

## E) OTHER

01. MTBF: 1,000,000 Hours @ 50°C ambient temperature, Full Load
02. Operating Temperature: -10°C to 50°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
08. Green Output Power indication LED

## F) MECHANICAL FORMAT

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

## G) SPECIAL OPTIONS

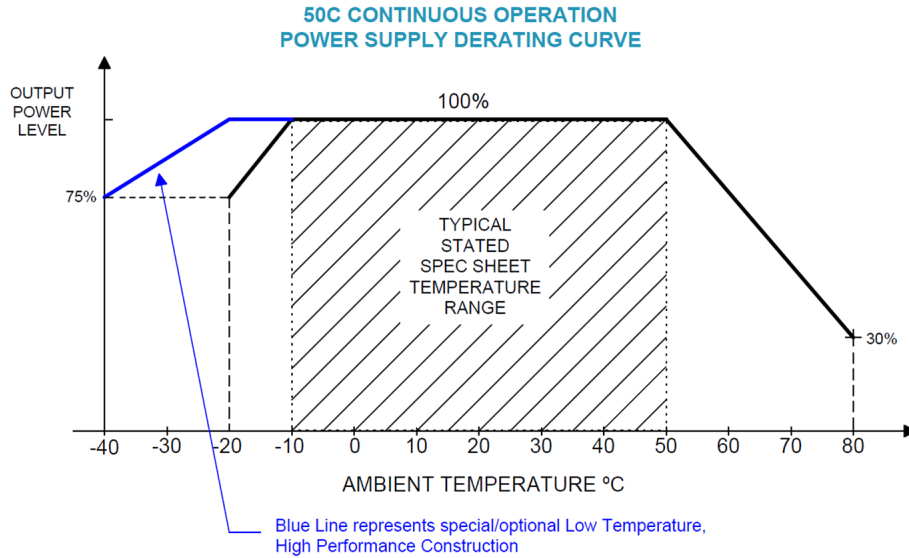
01. Custom Label Markings
  02. Integral Earth Wire for Class I
  03. Short term Output Surge Capability
  04. Reduced Leakage Current versions
  05. Tightened output voltage tolerance
  06. Reduced output ripple level
  07. Low Temperature operation, down to -40°C
  08. Over-Temperature Protection, Latched Shut-Down
  09. Special Input or Output Connectors
-

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

Model:GTM96700-BWWVV-F

June 2, 2020

### DERATING CURVE



Note: Models  $\geq 24V$  may be operated at 70W continuous power, if the ambient temperature is  $\leq 40^\circ C$ .

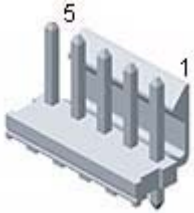
Delivering leading edge, innovative power solutions for more than **30** years....

Model:GTM96700-BWWVV-F

June 2, 2020

**INPUT CONFIGURATION**

Description Molex 26-60-4050 5 Position Header Pin 1: Gnd, Pin 2: Removed, PIN 3: Neutral, Pin 4: removed, Pin 5: Line



Optional Input Wiring Kits are available:

PN/Ordering No	Length	End A	End B
<a href="#">C810070M6MLX5(R)</a>	60	IEC 60320 C8 (Faston)	MOLEX 09-50-3051
<a href="#">C810070M6MLX5HW(R)</a>	60	IEC 60320 C8 (Hardwired)	MOLEX 09-50-3051
<a href="#">C1410070M6MLX5(R)</a>	60	IEC 60320 C13	MOLEX 09-50-3051
<a href="#">MLX5410070M7MLX5(R)</a>	73	MOLEX 09-50-3051	MOLEX 09-50-3051

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










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

Model:GTM96700-BWWVV-F

June 2, 2020






## Approvals

Logo	Description
	Attention Mark / Refer to operating manual for operating and service instructions
No Logo Applicable	
No Logo	CB Certificate IEC 60950-1:2005 (2nd Edition), Am 1: 2009 + Am 2:2013, CB report IEC 60950-1:2005 (2nd Edition), Am 1: 2009 + Am 2:2013
No Logo Applicable	CB for IEC 62368-1:2014 (Second Edition)
	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>
	Class I Earth Ground
	Declaration ДС № EAЭC N RU Д-US.KA01.B.10453_19 Custom Union of Russia, Belarus and Kazakhstan <a href="http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration">http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration</a>
	
	
	Indoor Use Only - Mark is on the label or Molded in the case

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

Model:GTM96700-BWWVV-F

June 2, 2020

	Morocco SDoC declaration <a href="http://www.globtek.info/certs/Morocco%20SDoC%20Declaration/">http://www.globtek.info/certs/Morocco%20SDoC%20Declaration/</a>
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>
 Intertek IEC/EN60601-1 IEC/EN60950-1	Semko S-Mark-Cert-EN60601-1 and EN60950-1
 10276	Ukraine UKRSeuro (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