

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

Model:GTM21096-WVVV-F

June 24, 2019

GTM21096-WVVV-F

Information

Model Number GTM21096-WVVV-F

Description GTM21096-WVVV-F, Medical Power Supply, Open Frame/Internal, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, Molex 09-65-2058 3 Position Header Pin 1: Line, Pin 2: Removed, PIN 3: Neutral, Pin 4: removed, Pin 5: Earth, Output Rating: 19 Watts, Power rating with convection cooling (W) , 3.3-24V in 0.1V increments, Approvals: EAC; CB 60601-1; CE; China RoHS; RoHS; SIQ; Ukraine; VCCI; WEEE; cRUus; Class I;

Model Picture



Agency

Documents <http://www.globtek.info/certs/GTM21096/>

CE

EC-Declaration https://www.globtek.com/pdf/ec_declaration/a0O30000007P7Z8EAK

RoHS/RoHS2

Declaration https://www.globtek.com/pdf/rohs_cert/a0O30000007P7Z8EAK

REACH

Declaration https://www.globtek.com/pdf/iso_certificates/REACH.pdf

Conflict

Minerals <https://www.globtek.com/pdf/conflict-minerals.pdf>

Declaration

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Model Parameters

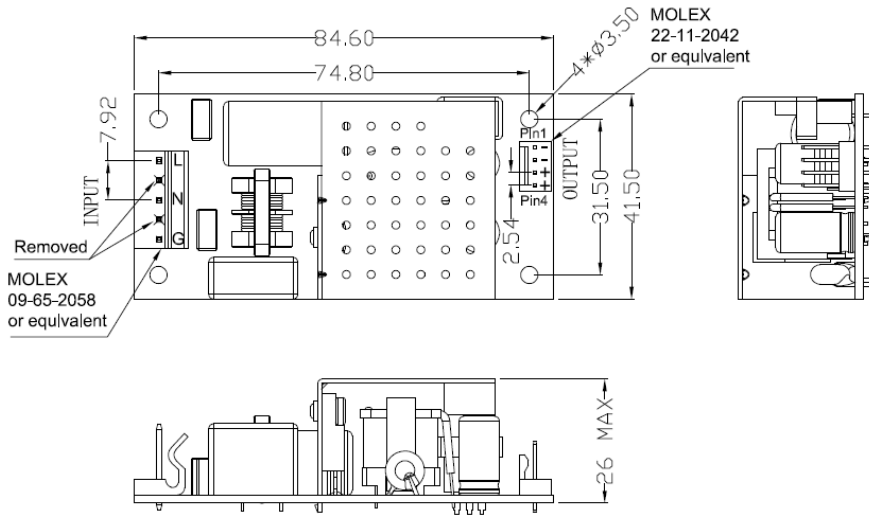
Type	Open Frame/Internal
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	Medical Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	0.5A Max
Wattage (W)	19.0
Vout Range (V)	3.3-24
Efficiency Level	N/A
Ingress Protection	
Size (mm)	

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ENCLOSURE



IMPORTANT INSTALLATION NOTES:

FOR PROPER INSULATION AND GROUNDING RELIABILITY, FOLLOW EITHER OPTIONS BELOW

OPTION 1: USE NYLON 4-40 SCREWS AND NYLON STAND-OFF FOR ALL MOUNTING HOLES AND ADD JUMPER WIRE OPTION SHOWN BELOW FOR EARTH CONNECTION BETWEEN MOUNTING HOLES 4 AND 3.



RING TERMINAL, AMP P/N: 8-34142-5 AWG 18 STRANDED WIRE, GREEN, 100 mm LENGTH

OPTION 2. USE METALLIC 4-40 SCREWS AND METALLIC STAND-OFF FOR HOLES 3 AND 4 AND USE NYLON 4-40 SCREWS AND NYLON STAND-OFF FOR HOLES 1 AND 2.

OPTION 2 IS ONLY APPLICABLE IF SYSTEM CHASSIS WHERE THE POWER SUPPLY IS MOUNTED IS MADE OUT OF METAL.

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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM21096-1003-F	3.3 V	2.6	8.58	RFQ
GTM21096-1003-FW	3.3 V	2.6	8.58	RFQ
GTM21096-1505-F	5 V	2.6	13.00	RFQ
GTM21096-1505-FW	5 V	2.6	13.00	RFQ
GTM21096-1506-F	6 V	2.5	15.00	RFQ
GTM21096-1506-FW	6 V	2.5	15.00	RFQ
GTM21096-1509-F	9 V	1.7	15.30	RFQ
GTM21096-1509-FW	9 V	1.7	15.30	RFQ
GTM21096-1512-F	12 V	1.25	15.00	RFQ
GTM21096-1512-FW	12 V	1.25	15.00	RFQ
GTM21096-1815-F	15 V	1.2	18.00	RFQ
GTM21096-1815-FW	15 V	1.2	18.00	RFQ
GTM21096-1818-F	18 V	1	18.00	RFQ
GTM21096-1818-FW	18 V	1	18.00	RFQ
GTM21096-1824-F	24 V	0.75	18.00	RFQ
GTM21096-1824-FW	24 V	0.75	18.00	RFQ
GTM21096-1948-F	48 V	0.4	19.20	RFQ
GTM21096-1948-FW	48 V	0.4	19.20	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: +/- 5% measured at the output connector
04. Line Voltage Regulation: +/- 1% typical measured at full load
05. Output Ripple (Vp-p): +/- 1% of output voltage, Vp-p, typical
06. Turn-ON/OFF: 5% maximum, 1 mS typical recovery time for 25% step load
07. Turn-ON Delay: 1 Sec, typical
08. Hold-Up Time: 8 mS typical @ nominal input voltage and full load
09. Inrush Current: 30A maximum cold start @ 115 Vac input, 60A maximum cold start @ 230 Vac input
10. Switching Frequency: 100 KHz typical, varies with line and load
11. Efficiency: 75% typical at nominal input and full load

B) PROTECTION

01. Over-Voltage: limited via crowbar method
02. Short Circuit/Over-load: momentary short circuit protected, output will autorecover upon removal of short
03. Input Protection: Input line

C) SAFETY

01. Dielectric Withstand Voltage: 5656 Vdc from primary to secondary
02. Earth Leakage Current: Did not exceed 5 mA in NORMAL CONDITION and 10 mA in SINGLE FAULT CONDITION
03. Touch Current: Did not exceed 100uA NC(Normal condition) 500uA SFC(single fault condition)
04. Earth continuity test:<0.1 Ohm or < 0.2 Ohm when with a non-detachable Power Supply cord, Class I Only
05. Type of protection against electric shock: class i
06. Degree of safety of application in the presence of flammable anesthetic: not evaluated
07. Mode of operation: Continuous
08. ROHS 2: Complies with EU 2011/65/EU and China SJ/T 11363-2006

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: -10°C to 80°C
05. Cooling: Convection

E) ENCLOSURE

01. Housing: Open Frame
02. Size: 84.6 x 41.4 x 28.9 mm

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DERATING CURVE

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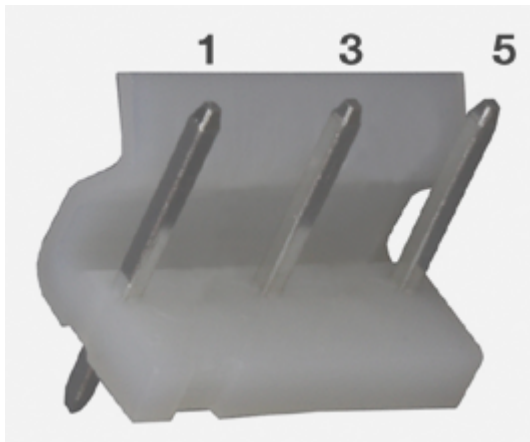
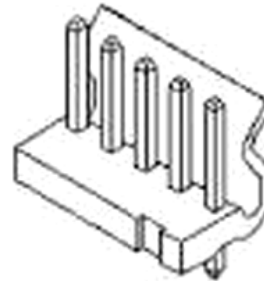
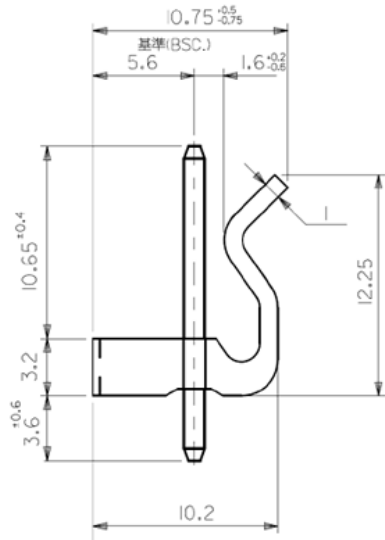
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Input Configuration

Description Molex 09-65-2058 3 Position Header Pin 1: Line, Pin 2: Removed, PIN 3: Neutral, Pin 4: removed, Pin 5: Earth

Document: http://www.molex.com/pdm_docs/sd/009652058_sd.pdf

Catalog Page: http://www.molex.com/molex/products/datasheet.jsp?part=active/0009652058_PCB_HEADERS.xml



Mates With Part(s):












5195 SPOX™ Crimp Housing, **5239** KK® Crimp Housing

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Approvals

Logo	Description
	Attention Mark / Refer to operating manual for operating and service instructions
No Logo Applicable	CB report IEC 60601-1: 2005 + CORR. 1 (2006) + CORR. 2 (2007) and or EN 60601-1:2006 3rd Edition
	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
	CHINA SJ/T 11364-2014, China RoHS Chart: http://en.globtek.com/globtek-rohs.php
	Class I Earth Ground
	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)
	Certification # TC RU AR46.B.75423 Custom Union of Russia, Belarus and Kazakhstan
	Indoor Use Only - Mark is on the label or Molded in the case
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
	SIQ Mark License EN60601-1
IEC/EN60601-1	
	Ukraine UKRSePro (Document: www.globtek.com/html/iso_certificates/GT_Ukraine.pdf)
10276	
	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