

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

Model:GTM91120-30VV-F

May 25, 2019

## GTM91120-30VV-F

### Information

Model Number GTM91120-30VV-F

Description GTM91120-30VV-F, 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, 5-PIN PC BOARD 3.96 mm WAFER CONNECTOR, JVE P/N: 24W1180-05S10-01T-3.6-R2A-CG01 or EQUIVALENT, Output Rating: 30 Watts, Power rating with convection cooling (W) , 5-48V in 0.1V increments, Approvals: CB EN/IEC 60335-1; CB 60601-1; CB 60950; CE; CE; China RoHS; cULus; FCC; GOST-R; Level V; RoHS; SIQ; Designed to meet EN 60601-1; SIQ; Ukraine; VCCI; WEEE; cRUus; IEC/EN60601-1; IEC/EN60950-1; IEC 60335; CE; ETL; CB 60335; RCM;

Model Picture



Agency Documents <http://www.globtek.info/certs/GTM91120-T2%20-T3A%20-FW/>

CE Declaration [https://www.globtek.com/pdf/ec\\_declaration/a0Oa000000FysLkEAJ](https://www.globtek.com/pdf/ec_declaration/a0Oa000000FysLkEAJ)

RoHS/RoHS2 Declaration [https://www.globtek.com/pdf/rohs\\_cert/a0Oa000000FysLkEAJ](https://www.globtek.com/pdf/rohs_cert/a0Oa000000FysLkEAJ)

REACH Declaration [https://www.globtek.com/pdf/iso\\_certificates/REACH.pdf](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:GTM91120-30VV-F

May 25, 2019

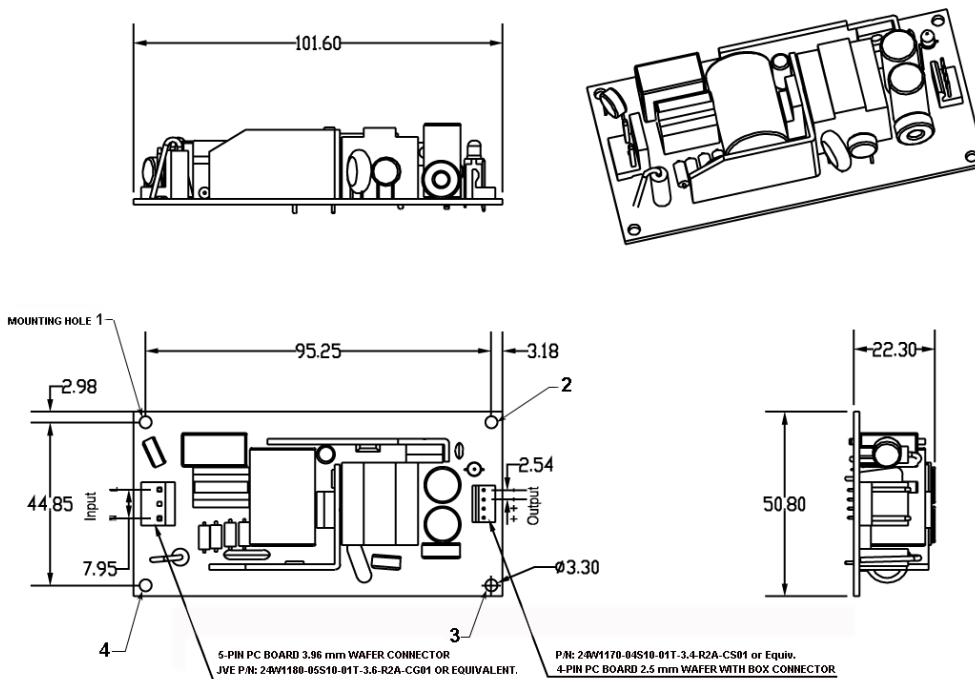
**Model Parameters**

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)	1.5A
Wattage (W)	30.0
Vout Range (V)	5-48
Efficiency Level	V
Ingress Protection	
Size (mm)	101.6x50.8x22.30

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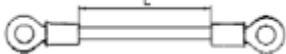
Model:GTM91120-30VV-F

May 25, 2019

**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 2 AND 4.



RING TERMINAL, AMP P/N: 8-34142-5 AWG 18 STRANDED WIRE,  
GREEN, 130+20,-0 mm LENGTH

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

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

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Model:GTM91120-30VV-F

May 25, 2019

**RATING TABLE**

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM91120-3007.5-2.5-F5 V	4		20.00	<a href="#">RFQ</a>
GTM91120-3007.5-1.5-F6 V	3.75		22.50	<a href="#">RFQ</a>
GTM91120-3010.5-1.5-F9 V	2.77		24.93	<a href="#">RFQ</a>
GTM91120-3014.5-2.5-F12 V	2.5		30.00	<a href="#">RFQ</a>
GTM91120-3019.5-4.5-F15 V	2		30.00	<a href="#">RFQ</a>
GTM91120-3019.5-1.5-F18 V	1.66		29.88	<a href="#">RFQ</a>
GTM91120-3024-F	24 V	1.25	30.00	<a href="#">RFQ</a>
GTM91120-3036-F	36 V	0.83	29.88	<a href="#">RFQ</a>
GTM91120-3048-F	48 V	0.625	30.00	<a href="#">RFQ</a>

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Model:GTM91120-30VV-F

May 25, 2019

**SPECIFICATIONS****A) ELECTRICAL SPECIFICATIONS:**

1. Input Voltage: 100-240 Vac
  2. Input Current: 1.5 A RMS max
  3. Input Frequency: 47 - 63 Hz
  4. Output power (rated): 30Watts max
- Note: Refer to Power Supply information on page 2 for the corresponding rated output power for the specific output voltage.
5. Output Regulation: +/- 5% measured at the output connector
  6. Line Voltage Regulation: +/- 2% typical measured at full load
  7. Output Ripple (Vp-p): +/-2% maximum, measured at 20 MHz bandwidth with 0.1 uf ceramic capacitor in parallel with 10 uf electrolytic capacitor connected at the end of the output connector at nominal line
- Optional low ripple option available (RFP4579)
8. Turn-ON/OFF Overshoot: 5% maximum, 500uS typical recovery time for 25% to 50% step load
  9. Turn-ON Delay: 3 Seconds, maximum @ full load, nominal line
  10. Hold-Up Time: 8mS typical @ nominal input voltage and full load
  11. Inrush Current: 60A maximum cold start @ 240Vac input
  12. Switching Frequency: 100 KHz typical

**B) PROTECTION**

1. Over-Voltage: Protected with a Zener diode clamp across the output
2. Short Circuit: Hiccup with auto recovery
3. Over-load: Hiccup with auto recovery
4. Input Protection: Input line and neutral fusing

**C) SAFETY**

1. Dielectric Withstand Voltage: 5656Vdc from primary to secondary
2. Earth Leakage Current: <100 uA at 240Vac input voltage
3. MTBF: 200,000 hours @ 25°C ambient temperature
4. Operating Temperature: 0°C to 40°C ambient temperature

**D) OTHER:**

1. MTBF: 200,000 Hours @ 25°C ambient temperature
2. Humidity: 0% to 90% relative humidity
3. Storage Temperature: -10°C to 80°C
4. Cooling: Convection

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Model:GTM91120-30VV-F

May 25, 2019

DERATING CURVE

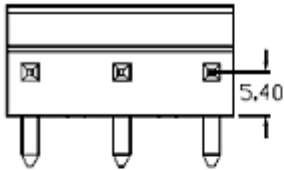
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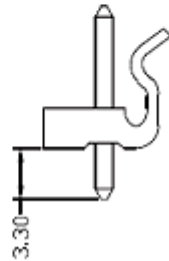
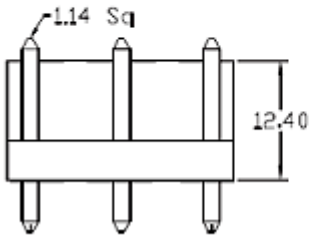
May 25, 2019

### Input Configuration

Description 5-PIN PC BOARD 3.96 mm WAFER CONNECTOR, JVE P/N: 24W1180-05S10-01T-3.6-R2A-CG01 or EQUIVALENT



**Note: Only using  
3 pins of this Header.**



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Model:GTM91120-30VV-F

May 25, 2019

## Approvals







Logo	Description
No Logo	Applicable CB report IEC 60601-1: 2005 + CORR. 1 (2006) + CORR. 2 (2007) and or EN 60601-1:2006 3rd Edition including 2MOOP requirements
No Logo	Applicable IEC 60335-1:2010 (Fifth Edition) incl. Corr. 1:2010 and Corr. 2:2011 + A1:2013
No Logo	Applicable 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
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
	CE Mark: tested to comply with EN 55032:2012+AC:2013, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 55024:2010, EN 60601-1-2:2015
	CE Mark: tested to comply with EN55022:2006/A1:2007 Class B, EN610003-2, EN610003-3 including EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6N EN61000-4-11; EMI: Complies with EN55011 CLASS B and FCC Part 15B - On label or Molded in case
	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
	AAMI ES60601-1:2005 +A1 - Medical Electrical Equipment - Part 1: General Requirements CAN/CSA-C22.2 No.60601-1:14, Third Edition Issued: 2014/03/01 - Medical Electrical Equipment - Part 1 IEC 60601-1-11 Issued: 2015/01/20 Ed. 2 Medical Elec. Equip.
	
	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>
	cRUus UL Recognized Component E341350 3rd Edition w-RM ANSI-AAMI ES60601-1 (2005 + C1:09 + A2:10) and CAN-CSA-C22.2 No. 60601-1 (2008)
	cRUus UL Recognized Component E341351 UL 60950-1, 2nd Edition, 2011-12-19 (Information Technology Equipment - Safety - Part 1: General Requirements) CSA C22.2 No. 60950-1-07, 2nd Edition, 2011-12
No Logo	Designed to meet EN 60601-1:2006 + A11:2011 +A1:2013 3rd Edition
	FCC PART 15 CLASS B
	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> ). 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.
<b>IEC/EN60335-1</b>	IEC/EN60335-1 Up to 36 volts
<b>IEC/EN60601-1</b>	IEC/EN60601-1
<b>IEC/EN60950-1</b>	IEC/EN60950-1
	Indoor Use Only - Mark is on the label or Molded in the case
<b>EFFICIENCY LEVEL</b> 	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)
	RCM certificate SAA150575; Australia and New Zealand Regulatory Compliance, Mark ( <a href="http://rcm.standards.org.au/rcmfaq/rcmfaq.htm">http://rcm.standards.org.au/rcmfaq/rcmfaq.htm</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>



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May 25, 2019

 RoHS00015810107	<b>Serial Number Information</b>
RoHS Symbol Serial NO. Class NO for production	YEAR WEEK
 IEC/EN60335-1	SIQ IEC/EN 60335-1 (Safety of Household and Similar Electrical Appliances, Part 1: General Requirements) up to 36 volts
 IEC/EN60601-1	SIQ Mark License EN60601-1, 3rd edition
 10276	Ukraine UKRSepr (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