

Model:GTM91120-30VV-FW

May 11, 2025

GTM91120-30VV-FW

Information

Model Number

GTM91120-30VV-FW

Description

GTM91120-30VV-FW, 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, 5-PIN PC BOARD 3.96 mm WAFER CONNECTOR, JVE P/N: 24W1180-05S10-01T-3.6-R2A-CG01 CLASS II or EQUIVALENT, Output Rating: 30 Watts, Power rating with convection cooling (W) , 5-48V in 0.1V increments, Approvals: Fuse 60335; Book 60601; Fuse 60335; Ta:40°C; LPS 60950; RCM; S-Mark IEC/EN 60601-1; SIQ; S-Mark 60950; SIQ 61558; Ukraine; 61558-1; IEC 61558-1; EAC; UKCA; RCM; ETL 62368; LPS 62368; WEEE; VCCI; SIQ; Designed to meet EN 60601-1; SIQ; Level V; FCC; CE; CE;CB EN/IEC 60335-1; CB 60950; CB 60601-1; cRUus; cRUus (up to 30V); IEC 60335; IEC/EN60601-1; IEC/EN60950-1; CE; Double Insulation; ETL; CB 60335; RoHS; China RoHS;

Model Picture



Agency Documents

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

CE EC-Declaration

https://www.globtek.com/pdf/ec_declaration/a0Oa000000HWWF4EAP

RoHS/RoHS2 Declaration

https://www.globtek.com/pdf/rohs_cert/a0Oa000000HWWF4EAP

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

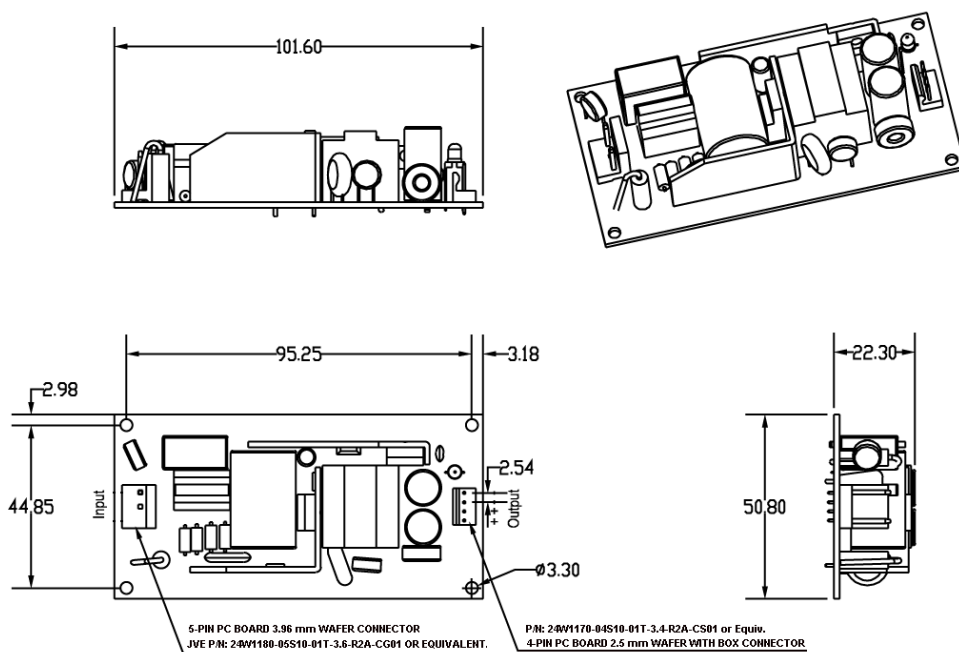
Type	Open Frame/Internal
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ICT / ITE / Medical Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	1.5A
Wattage (W)	30.0
Vout Range (V)	5-48
Efficiency Level	V
Ingress Protection	
Size (mm)	101.6x50.8x22.30

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ENCLOSURE



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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM91120-3007.5-2.5-FW	5 V	4	20.00	RFQ
GTM91120-3007.5-1.5-FW	6 V	3.75	22.50	RFQ
GTM91120-3010.5-1.5-FW	9 V	2.77	24.93	RFQ
GTM91120-3010.5-1.4-FW	9.1 V	3.3	30.03	RFQ
GTM91120-3014.5-2.5-FW	12 V	2.5	30.00	RFQ
GTM91120-3019.5-5.5-FW	14 V	2.142	29.99	RFQ
GTM91120-3019.5-4.5-FW	15 V	2	30.00	RFQ
GTM91120-3019.5-1.5-FW	18 V	1.66	29.88	RFQ
GTM91120-3024-FW	24 V	1.25	30.00	RFQ
GTM91120-3036-FW	36 V	0.83	29.88	RFQ
GTM91120-3048-FW	48 V	0.625	30.00	RFQ

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SPECIFICATIONS

A) ELECTRICAL SPECIFICATIONS:

1. Input Voltage: Specified 90-264 Vac, Nameplate rated 100-240 Vac
 2. Input Frequency: Specified 47-63 Hz, Nameplate rated 50-60 Hz
 3. 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.
4. Output Regulation: +/- 5% measured at the output connector
 5. Line Voltage Regulation: +/- 2% typical measured at full load
 6. 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)
7. Turn-ON/OFF Overshoot: 5% maximum, 500uS typical recovery time for 25% to 50% step load
 8. Turn-ON Delay: 3 Seconds, maximum @ full load, nominal line
 9. Hold-Up Time: 8mS typical @ nominal input voltage and full load
 10. Inrush Current: 60A maximum cold start @ 240Vac input
 11. 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: 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)
4. Warning to service personnel "CAUTION: Double pole/neutral fusing". This marking is required only for both F1 and F2 installed

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. Operating Temperature: 0°C to 40°C ambient temperature
5. Cooling: Convection

E) ENCLOSURE

1. Housing: Open Frame
2. Size: 101.6 x 50.8 x 22.3 mm +/-1.0 mm
3. Markings: Label and/or Pad Printed

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DERATING CURVE

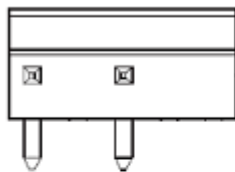
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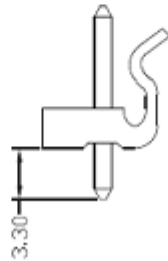
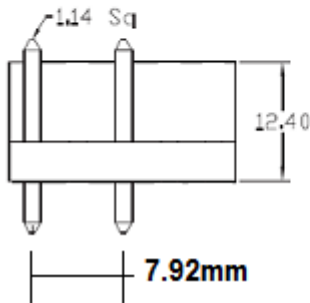
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INPUT CONFIGURATION

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



**Note: Only use 2pins
of this 5pin Header.**



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

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

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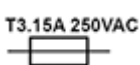
Approvals

Logo	Description
	Book 60335 up to 36 Volts
	60601-1 3rd Operating Instructions
No Logo Applicable	CB Report to ETL 60601-1, 3rd Edition+60601-1-11
No Logo Applicable	CB report 60950-1 2nd Ed
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
No Logo Applicable	IEC 60335-1:2010 (Fifth Edition) incl. Corr. 1:2010 and Corr. 2:2011 + A1:2013
	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
	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]
	AAMI ES60601-1:2005 +A1 - Medical Electrical Equipment - Part 1: General Requirements

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	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: http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%205-20-22.pdf
	cRUus Registered E170507 CSA C22.2 No. 60950-1 2nd Ed. (up to 30V)
	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)
No Logo	Designed to meet EN 60601-1:2006 + A11:2011 +A1:2013 3rd Edition
	
	Certification # TC RU AR46.B.75423 Custom Union of Russia, Belarus and Kazakhstan
	FCC PART 15 CLASS B
	Fuse 60335 T3.15A 250VAC Up to 36 volts
Ta:40°C	IEC 61558-1 Maximum Ambient Temperature, Max 40°C
IEC/EN60335-1	IEC/EN60335-1 Up to 36 volts
IEC/EN60601-1	IEC/EN60601-1
IEC/EN60950-1	IEC/EN60950-1
	Indoor Use Only - Mark is on the label or Molded in the case

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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
LPS	Limited Power Source 62368
 GMA-515496-EA	RCM certificate GMA-515496-EA; Australia and New Zealand Regulatory Compliance, Mark (http://rcm.standards.org.au/rcmfaq/rcmfaq.htm)
 GMA-515496-EA	RCM certificate GMA-515958-EA; Australia and New Zealand Regulatory Compliance, Mark (http://rcm.standards.org.au/rcmfaq/rcmfaq.htm)
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
 Intertek IEC/EN60601-1	IEC 60601-1:2005+A1 EN 60601-1:2006+A1:2013+A12:2014 IEC 60601-1-11:2015 EN 60601-1-11:2015
 Intertek IEC/EN60950-1	Semko S-Mark-Cert- EN60950-1
 RoHS Symbol Serial NO. Class NO for production YEAR WEEK	Serial Number Information
 IEC/EN60335-1	SIQ IEC/EN 60335-1 (Safety of Household and Similar Electrical Appliances, Part 1: General Requirements) up to 36 volts

PROPRIETARY INFORMATION

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<https://www.globtek.com/ds/iYZKZpBKYfs34hikBhosE.html#datasheet>

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 IEC/EN60601-1	SIQ Mark License EN60601-1, 3rd edition
 IEC/EN60950-1	SIQ Mark License EN 60950-1:2006 + A1:2010 + All :2009 + A12:2011
 IEC/EN61558-1	EN 61558-2-16:2009 + A1 :2013 EN 61558-1 :2005 + A 1 :2009EN 61558-2-16:2009 + A1 :2013 EN 61558-1 :2005 + A 1 :2009EN 61558-2-16:2009 + A1 :2013 EN 61558-1 :2005 + A 1 :2009EN 61558-2-16:2009 + A1 :2013 EN 61558-1 :2005 + A 1 :2009
	Transformer Symbol IEC 61558-1 SMPS Short-Circuit –Proof Safety Isolating Transformer
	Transformer Symbol IEC 61558-1 SMPS Switch Mode Power supply
	UKCA Certification
	Ukraine UKRSepro (Document: www.globtek.com/html/iso_certificates/GT_Ukraine.pdf)
	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