

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

Model:GTM91120-30VV-FW

July 24, 2021

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; IEC 61558-1; EAC; UKCA; 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:GTM91120-30VV-FW

July 24, 2021

MODEL PARAMETERS

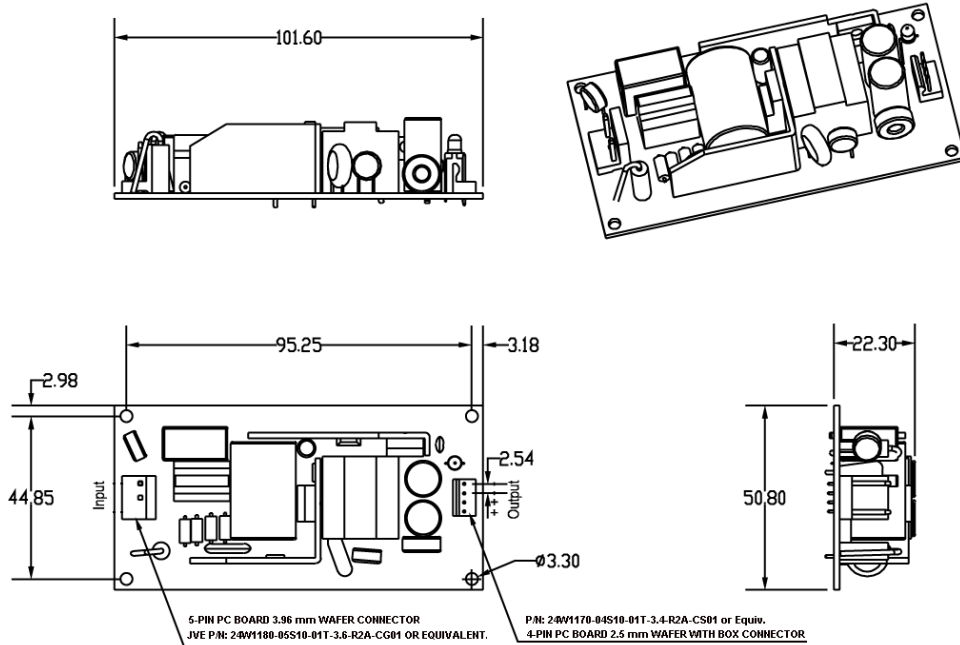
| | |
|--------------------|--|
| Type | Open Frame/Internal |
| Technology | Regulated Switchmode AC-DC Power Supply AC Adaptor |
| Category | ICT / ITE / Medical Power Supply |
| Input Voltage | 100-240V~, 50-60 Hz |
| I/P Amps (A) | 1.5A |
| Wattage (W) | 30.0 |
| Vout Range (V) | 5-48 |
| Efficiency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

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Model:GTM91120-30VV-FW

July 24, 2021

ENCLOSURE



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Model:GTM91120-30VV-FW

July 24, 2021

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 |

Model:GTM91120-30VV-FW

July 24, 2021

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)

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

PROPRIETARY INFORMATION

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<https://en.globtek.com/datasheet/id/a0Oa000000HWWF4>

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Model:GTM91120-30VV-FW

July 24, 2021

DERATING CURVE

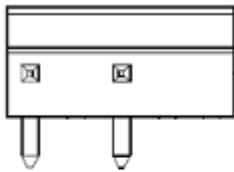
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Model:GTM91120-30VV-FW

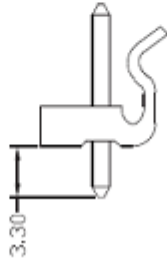
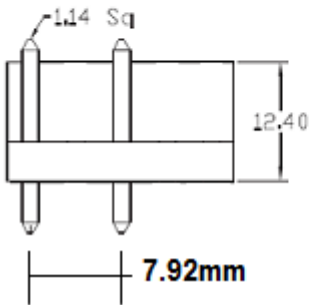
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INPUT CONFIGURATION

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.

Model:GTM91120-30VV-FW

July 24, 2021








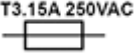

Approvals

| 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 |

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Model:GTM91120-30VV-FW





July 24, 2021

| | |
|---|---|
|  | 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: http://en.globtek.com/globtek-rohs.php |
|  | 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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Model:GTM91120-30VV-FW








July 24, 2021

| | |
|---|--|
| 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 |
|  | RCM certificate SAA-161679-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 |
|  | IEC 60601-1:2005+A1 EN 60601-1:2006+A1:2013+A12:2014 IEC 60601-1-11:2015 EN 60601-1-11:2015 |
|  | Semko S-Mark-Cert- EN60950-1 |
|  | Serial Number Information |
|  | SIQ IEC/EN 60335-1 (Safety of Household and Similar Electrical Appliances, Part 1: General Requirements) up to 36 volts |
|  | SIQ Mark License EN60601-1, 3rd edition |
|  | SIQ Mark License EN 60950-1:2006 + A1:2010 + All :2009 + A12:2011 |

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Model:GTM91120-30VV-FW

July 24, 2021

| | |
|--|--|
|  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 |
|  10276 | Ukraine UKRSepto (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 |