

Model:GTM91110P240VV-FA-S

May 10, 2025

## Open Frame ITE & Medical 240W Switching Power Supply in Industry Standard 3x5" Foot print Offers superior Isolation and high performance with a universal input of 90-264VDC and 12-55VDC Output, Model GTM91110P240VV-FA-S

### Information

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Number                  | GTM91110P240VV-FA-S                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Description                   | GTM91110P240VV-FA-S, Medical Power Supply, Open Frame/Internal, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, Molex 26-60-4030 3 Position Header Pin 1: Line, Pin 2: Removed, PIN 3: Neutral, Output Rating: 240 Watts, Power rating with convection cooling (W) , 12-55V in 0.1V increments, Approvals: WEEE; cETLus 60601-1 3rd; Ukraine; SIQ; SIQ; Class I; FCC; CE; CE; EAC; Book 60601; CB 60950; CB 60601-1; China RoHS; RoHS; VCCI; |
| Model Picture                 |                                                                                                                                                                                                                                                                                                                                                                                                     |
| Agency Documents              | <a href="http://www.globtek.info/certs/GTM91110P/">http://www.globtek.info/certs/GTM91110P/</a>                                                                                                                                                                                                                                                                                                                                                                                       |
| CE EC-Declaration             | <a href="https://www.globtek.com/pdf/ec_declaration/a0Oa000000LNP9rEAH">https://www.globtek.com/pdf/ec_declaration/a0Oa000000LNP9rEAH</a>                                                                                                                                                                                                                                                                                                                                             |
| RoHS/RoHS2 Declaration        | <a href="https://www.globtek.com/pdf/rohs_cert/a0Oa000000LNP9rEAH">https://www.globtek.com/pdf/rohs_cert/a0Oa000000LNP9rEAH</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>                                                                                                                                                                                                                                                                                                                                                                     |

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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)       | 4.0A                                               |
| Wattage (W)        | 240.0                                              |
| Vout Range (V)     | 12-55                                              |
| Efficiency Level   | N/A                                                |
| Ingress Protection | IPX0                                               |
| Size (mm)          | 127.0*76.2*43.0                                    |

**PROPRIETARY INFORMATION**

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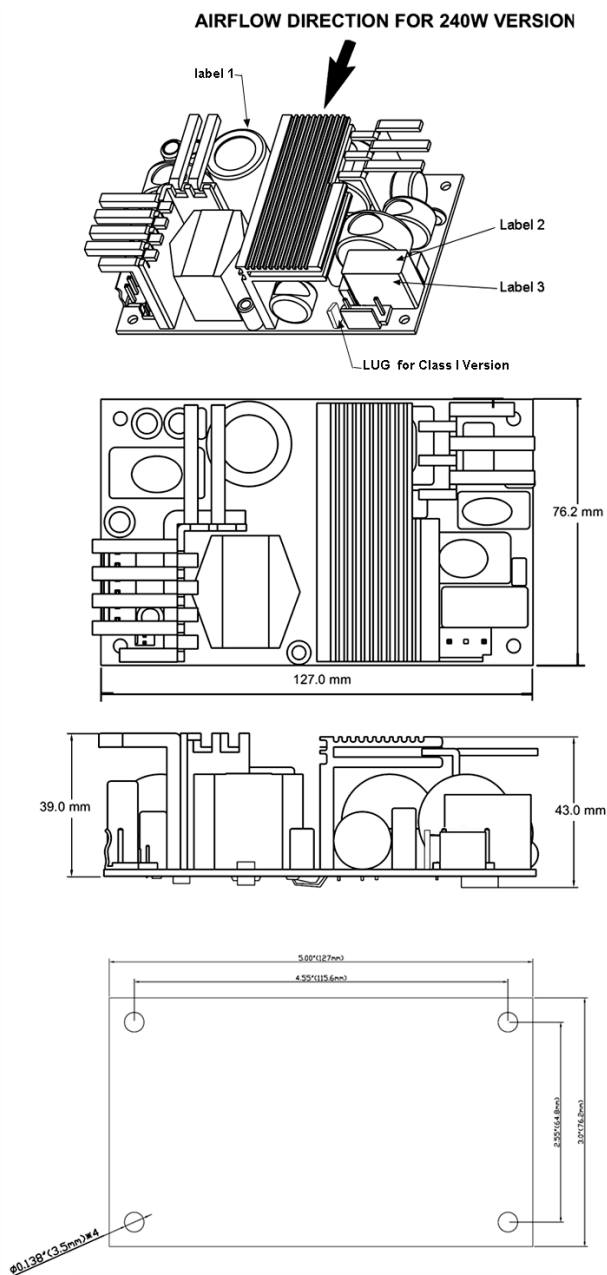
<https://www.globtek.com/ds/UFsuwYaeV5A/fxWAbUBNd5z.html#datasheet>

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## ENCLOSURE



### MOUNTING REQUIREMENTS:

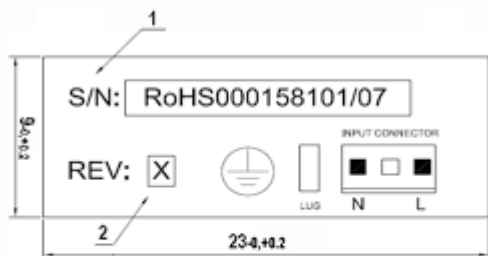
USE ONLY M3 TYPE SCREWS AND STANDOFF FOR MOUNTING.  
HARDWARES BIGGER THAN M3 TYPE MAY CAUSE SPACING  
VIOLATION BETWEEN LIVE PARTS AND THE CHASSIS.

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Label 1  
Position on outside bottom plate

Label 2  
Material : White art paper with Black nomenclature and is attached on top of CX1



1. S/N: SERIAL NUMBER  
2. REV: BOM REVISION LEVEL,  
THIS WILL CHANGED PER BOM REVISION LEVEL

Label 3



Material : White art paper with Black nomenclature and is attached on side of CX1

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## RATING TABLE

| Model Number            | Voltage | Amps(A) | Watts(W) | RFQ                 |
|-------------------------|---------|---------|----------|---------------------|
| GTM91110P24012-FA-S     | 12 V    | 20      | 240.00   | <a href="#">RFQ</a> |
| GTM91110P24015-FA-S     | 15 V    | 16      | 240.00   | <a href="#">RFQ</a> |
| GTM91110P24018-FA-S     | 18 V    | 13.3    | 239.40   | <a href="#">RFQ</a> |
| GTM91110P24024-FA-S     | 24 V    | 10      | 240.00   | <a href="#">RFQ</a> |
| GTM91110P24036-3.0-FA-S | 33 V    | 7.272   | 239.98   | <a href="#">RFQ</a> |
| GTM91110P24036-FA-S     | 36 V    | 6.7     | 241.20   | <a href="#">RFQ</a> |
| GTM91110P24048-FA-S     | 48 V    | 5       | 240.00   | <a href="#">RFQ</a> |
| GTM91110P24055-1.0-FA-S | 54 V    | 4.44    | 239.76   | <a href="#">RFQ</a> |
| GTM91110P24055-FA-S     | 55 V    | 4.36    | 239.80   | <a href="#">RFQ</a> |

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## SPECIFICATIONS

### A) ELECTRICAL SPECIFICATIONS:

01. Input Voltage: Specified 90-264 Vac, Nameplate rated 100-240 Vac
02. Input Frequency: Specified 47-63 Hz, Nameplate rated 50/60 Hz
03. Inrush current: Cold start @ 25°C, 40A @ 115Vac, 80A @ 230Vac
04. Efficiency: 85% to 90% typical at full load, 120-240Vac input
05. Power factor: 0.98 typical at full load, 230Vac input
06. Turn on delay: 5 Seconds maximum, (3 seconds max option)
07. Load regulation:  $\pm 1\%$  Measured at the connector side
08. Line regulation:  $\pm 0.2\%$  Measured at the connector side
09. Output Ripple protection (Peak to Peak):  $\pm 1\%$  maximum of nominal output voltage measured at 20 MHz bandwidth with 0.1 $\mu$ f ceramic capacitor in parallel with a low impedance 47  $\mu$ f electrolytic capacitor located 200mm from the end of the output connector
10. Turn on/off overshoot: 5% Maximum, 1mS recovery time
11. Hold up time: 8 mS @ 300W load, 10mS@200W load, 16mS@150W load at 115Vac input
12. Transient response: 2% Maximum deviation, returns to initial condition in 3 ms max for 25% load step, from 10% to 100% of rated load
13. Remote sense (optional): compensates for up to 0.5V voltage drop in output wiring.  
Power supply will operate correctly, with or without remote sense pins hooked up.
14. Auxillary Output: For forced air fan 12V @ 250mA, if convection cooled 12V @ 150mA. Other output voltages and current ratings from 5V to 24V available, contact factory for availability.
15. Indicator: Green LED for output presence

### B) PROTECTION

01. Input Protection: Input line fusing and 300Vac MOV
02. Short circuit: Protected. Unit will autorecover upon removal of short
03. Overload protection: Autorecover upon removal of overload
  - 150W, 175% - 210% of nominal power rating
  - 200W, 130% - 160% of nominal power rating
  - 240W, 110% - 130% of nominal power rating
  - 300W, 110% - 130% of nominal power rating
04. Over voltage: Protected at 110- 140% of nominal output voltage, latched type. AC cycling required to restore output. Autorecovery type OVP is an option, contact factory for availability.
05. Fan output protection: 3 Pin Linear Regulator, short circuit proof

### C) SAFETY

01. Dielectric Withstand Voltage: 4000Vac or 5656Vdc from input to output,  
On Class I models, 2500Vac or 3535Vdc from input to earth
02. Earth Leakage Current:
  - Class I Input Models: Does not exceed 500uA
  - Class II Input Models: Does not apply
03. Touch Current: Does not exceed 100uA, output terminations to earth
04. Output terminations rated as SELV, and Means of Operator Protection

### D) OTHER:

01. MTBF: 200,000 Hours @ 25°C ambient temperature
02. Operating Temperature Range:

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- 10°C to 50°C @ 100% output power rating
- 10°C to 70°C @ 50% output power derating

**03. Cooling:**

- Open Frame 150W Series: Convection
- Open Frame 240W and 300W Series: 20 CFM Forced Air Cooling
- Perforated Plastic Housing 200W Series: 20 CFM Forced Air Cooling,  
with convection cooling 50% derated (100W) output capability.

**04. Relative Humidity:** operating 0% to 90% Non-condensing**05. Storage Temperature:** -30°C to 85°C**06. Altitude:** up to 2000 meter**07. Random vibration/transient drop:** MIL-STD 810E**E) MECHANICAL FORMAT:****150W, 240W and 300W Open Frame version**

Size: 127\*76.2\*43 mm

Weight: 470 grams

**200W Perforated Plastic Enclosure version**

Size: 140\*87.6\*51.9 mm

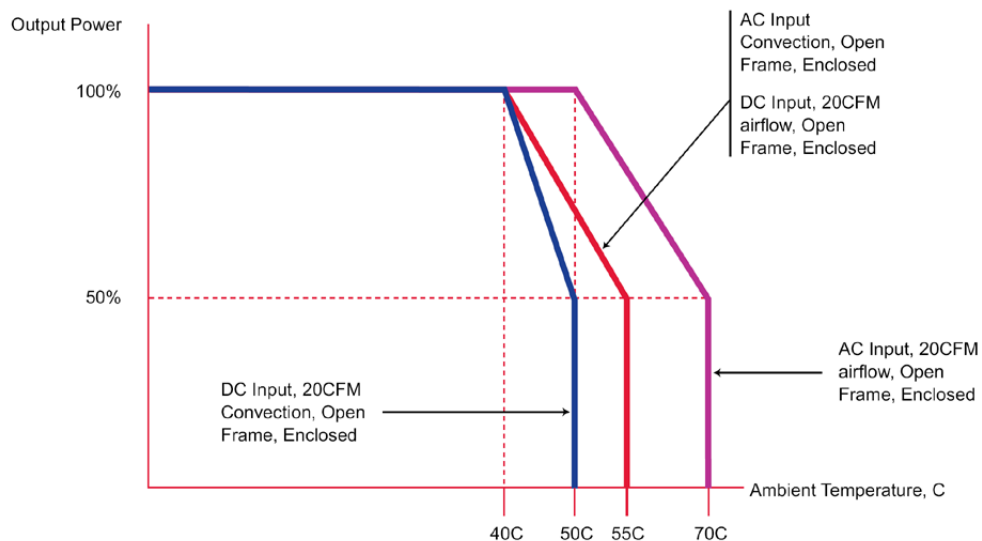
Weight: 620 grams

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## DERATING CURVE



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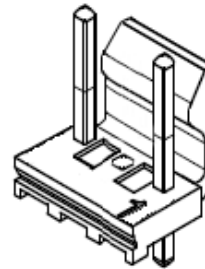
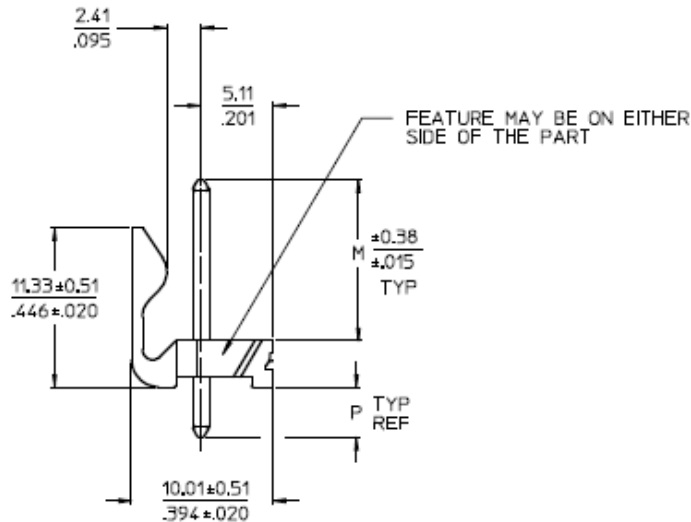
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## INPUT CONFIGURATION

Description

Molex 26-60-4030 3 Position Header Pin 1: Line, Pin 2: Removed, PIN 3: Neutral



Optional Input Wiring Kits are available:

| PN/Ordering No                     | Length | End A        | End B            |
|------------------------------------|--------|--------------|------------------|
| <a href="#">XHP410070M7MLX3(R)</a> | 70     | JST XHP-4    | Molex 09-93-0300 |
| <a href="#">C810070M6MLX3(R)</a>   | 60     | IEC60320 C8  | Molex 09-93-0300 |
| <a href="#">C1410070M6MLX3(R)</a>  | 60     | IEC60320 C14 | Molex 09-93-0300 |

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

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## Approvals

| Logo                                                                                                          | Description                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                              | 60601-1 3rd Operating Instructions                                                                                                                                                                                                           |
| No Logo Applicable                                                                                            | CB report IEC 60601-1: 2005 + CORR. 1 (2006) + CORR. 2 (2007) and or EN 60601-1:2005 Edition including 2MOOP requirements                                                                                                                    |
| No Logo                                                                                                       | 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                                                                    |
|                              | CE Mark: tested to comply with EN55022:2006/A1:2007 Class B, EN610003-2, EN610003-3, EN610004-2, EN610004-3, EN610004-4, EN610004-5, EN610004-6N EN610004-7 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: 2015 on the label or Molded in the case                                                                                                              |
|                            | cETLus-Cert-4007497 ANSI/AAMI ES60601-1:2005/A1:2012 Issued: 2012/08/20 Medical electrical equipment ? Part 1: Amendment 1; CAN/CSAC22.2 No. 60601-1:14, Third Edition Issued: 2014/03/01 - Medical Electrical Equipment - Part 1            |
|                            | CHINA SJ/T 11364-2014, China RoHS Chart:<br><a href="http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%205">http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%205</a>                      |
|                            | Certification # TC RU AR46.B.75423 Custom Union of Russia, Belarus and Kazakhstan                                                                                                                                                            |
|                            | FCC PART 15 CLASS B                                                                                                                                                                                                                          |
|                            | Indoor Use Only - Mark is on the label or Molded in the case                                                                                                                                                                                 |
| MAXIMUM OUTPUT POWER:<br>150W CONVECTION COOLING<br>240W WITH 20 CFM FORCED AIR DIRECTED TOWARDS CAPACITOR C1 | Note for Maximum Power GTM91110P240-FA(W)-S                                                                                                                                                                                                  |
|                                                                                                               | Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863-EU (                                                                                                                                                        |

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|                                                                                                    |                                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RoHS                                                                                               | <a href="http://www.ce-mark.com/Rohs%20final.pdf">http://www.ce-mark.com/Rohs%20final.pdf</a>                                                                                                       |
| <br>IEC/EN60601-1 | SIQ Mark License EN60601-1                                                                                                                                                                          |
| <br>IEC/EN60950-1 | SIQ Mark License EN60950-1                                                                                                                                                                          |
|                   | UKCA Certification                                                                                                                                                                                  |
| <br>10276         | Ukraine UKRSePro (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">http://ec.europa.eu/environment/waste/weee/index</a> )<br>Mark is on the label or Molded in the case |