

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

Model:GTMV6480-48VV-F

April 29, 2024

## GTMV6480-48VV-F

### Information

|                               |                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Number                  | GTMV6480-48VV-F                                                                                                                                                                                                                                                                                                                 |
| Description                   | GTMV6480-48VV-F, Medical Power Supply, Open Frame/Internal, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V- , 50/60Hz, IEC 60320/C14 AC Inlet Connector, Class I, Earth Ground, Output Rating: 48 Watts, Power rating with convection cooling (W) , $\pm 48V$ in 0.1V increments, Approvals: EAC; |
| Model Picture                 |                                                                                                                                                                                                                                                                                                                                 |
| Agency Documents              |                                                                                                                                                                                                                                                                                                                                 |
| CE EC-Declaration             | <a href="https://www.globtek.com/pdf/ec_declaration/a0O0c00000PGqRCEA1">https://www.globtek.com/pdf/ec_declaration/a0O0c00000PGqRCEA1</a>                                                                                                                                                                                       |
| RoHS/RoHS2 Declaration        | <a href="https://www.globtek.com/pdf/rohs_cert/a0O0c00000PGqRCEA1">https://www.globtek.com/pdf/rohs_cert/a0O0c00000PGqRCEA1</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**

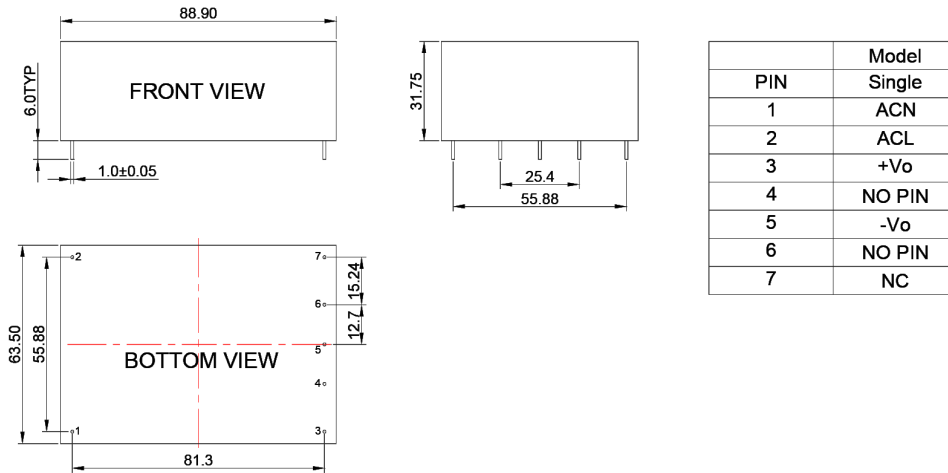
|                    |                                                                     |
|--------------------|---------------------------------------------------------------------|
| Type               | Open Frame/Internal                                                 |
| Technology         | Regulated Switchmode AC-DC Power Supply AC Adaptor                  |
| Category           | Medical Power Supply                                                |
| Input Voltage      | 100-240V~, 50/60Hz                                                  |
| I/P Amps (A)       | 1.2A                                                                |
| Wattage (W)        | 48.0                                                                |
| Vout Range (V)     | ±48                                                                 |
| Efficiency Level   | USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782 |
| Ingress Protection |                                                                     |
| Size (mm)          |                                                                     |

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## ENCLOSURE



UNIT: mm Unless otherwise specified, all tolerances are  $\pm 0.50$

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## RATING TABLE

| Model Number | Voltage | Amps(A) | Watts(W) | 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 Regulation: +/- 5% measured at the end of a 0.6 meter USB cordset employing #22 Gauge conductors
4. Line Voltage Regulation: +/- 3% typical measured at the end of a 0.6 meter USB cordset employing #22 Gauge conductors
5. Output Ripple (Vp-p): 400mV Ripples shall be measured with a 47uF electrolytic capacitor paralleled with a high-frequency 0.47uF ceramic capacitor across the output. The oscilloscope's bandwidth shall be set to 20MHz.
6. Turn-On/Turn-Off Overshoot: 5% maximum, 500 us maximum recovery time for 25% step load.
7. Turn-On Delay: 3000mS MAX at 115VAC Full Load
8. Hold-Up Time: 8mS Min at 100VAC Full Load
9. Inrush Current: No damage. On power when switching on/off repeatedly under any condition.
10. Switching Frequency: 65 KHz typical
11. Average Efficiency: 85% typical

### B) PROTECTION

- 1 Short Circuit Protection Output shut down and auto restart
- 2 Over Load Protection Output shut down and auto restart
3. Input Protection: Input line fusing

### C) SAFETY

1. Dielectric Withstand Voltage: 4000Vac 0.3mA 1 minute
2. ROHS 2: Complies with EU 2011/65/EU and China SJ/T 11363-2006

### D) OTHER:

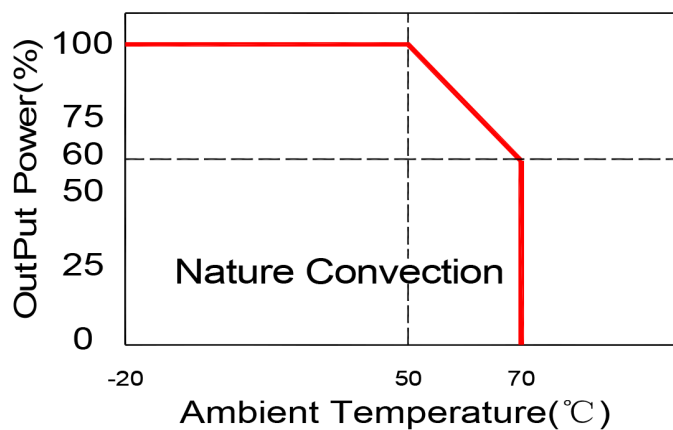
1. Operating Temperature: -10°C to 60°C ambient temperature
2. Humidity: 10% to 95% relative humidity
3. Storage Temperature: -20°C to 80°C

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## DERATING CURVE



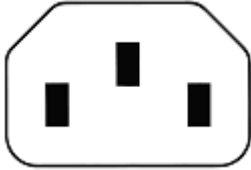
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## INPUT CONFIGURATION

Description IEC 60320/C14 AC Inlet Connector, Class I, Earth Ground



Mates with IEC 60320/C13 Plug

Optional Locking IEC60320 Receptacle and cord option available on some models by request.:



### [Standard International IEC 320/C13 Cordsets](#)

Below are standard cordsets which are "not included" (unless stated above); these can be purchased separately or packaged with the power supply. Contact your Sales Engineer if the style required is not shown below. Many more available in different lengths, colors or cable material.

## Stock Power Supply Cords

| Part Number/ Link                 | Country              | Plug                    | Termination | Length (mm) | (Ft) |
|-----------------------------------|----------------------|-------------------------|-------------|-------------|------|
| <a href="#">3021457F701(R)</a>    | N. American (Type B) | NEMA 5-15P              | IEC 320/C13 | 2150        | 7    |
| <a href="#">1191068F0701(R)</a>   | N. American (Type B) | NEMA 5-15P Hospital     | IEC 320/C13 | 2459        | 8    |
| <a href="#">2194272M5701-T(R)</a> | Argentina (Type I)   | IRAM 2073               | IEC 320/C13 | 2500        | 8    |
| <a href="#">5502022M5701A(R)</a>  | Australian (Type I)  | AS3112 / 3 PRONG        | IEC 320/C13 | 2500        | 8    |
| <a href="#">204B4272M5701(R)</a>  | Brazil (Type N)      | BRAZIL                  | IEC 320/C13 | 2500        | 8    |
| <a href="#">6023602M5701(R)</a>   | China (Type I)       | CCC GR2099              | IEC 320/C13 | 2500        | 8    |
| <a href="#">G8014272M5701(R)</a>  | Danish (Type K)      | AFSNIT SECTION 107-2-D1 | IEC 320/C13 | 2500        | 8    |
|                                   |                      |                         | IEC         |             |      |

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|                                       |                                                |                                                                                               |             |      |   |
|---------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------|------|---|
| <a href="#">23144272M5701-T(R)</a>    | Europe (Type E)                                | CEE 7/7                                                                                       | 320/C13     | 2500 | 8 |
| <a href="#">23134272M5701EUKR(R)</a>  | Europe/Korea Combo (Type E)                    | CEE 7/7 / KSC8305                                                                             | IEC 320/C13 | 2500 | 8 |
| <a href="#">205IN4272M5701(R)</a>     | India (Type D)                                 | India IS 1293 (also known as IA16A3 or BS546)                                                 | IEC 320/C13 | 2500 | 8 |
| <a href="#">208IN4272M5701(R)</a>     | India (Type M)                                 | India IS 1293 (also known as IA16A3 or BS546)                                                 | IEC 320/C13 | 2500 | 8 |
| <a href="#">377C4272M5701(R)</a>      | Israel (Type H)                                | ISL 377C                                                                                      | IEC 320/C13 | 2500 | 8 |
| <a href="#">23024272M5701(R)</a>      | Italy (Type L)                                 | CEI 23-16/VII                                                                                 | IEC 320/C13 | 2500 | 8 |
| 3003339F701(R)<br>[3x1.25mm2]         | Japan (Type B)                                 | JIS 8303 / 3 PINS                                                                             | IEC 320/C13 | 2500 | 8 |
| 3003068F2701-HK(R)<br>[3 x 2.0mm2]    |                                                |                                                                                               |             |      |   |
| <a href="#">302J115J6F0701J(R)</a>    | North America / Japan (Type B – 12A)           | NEMA 5-15P (cULus approved), Japan JIS C 8303 (PSE Approved)                                  | IEC 320/C13 | 1830 | 6 |
| <a href="#">302J104J6F0701J(R)</a>    | North America / Japan (Type B – 15A)           | NEMA 5-15P (cULus approved), Japan JIS C 8303 (PSE Approved)                                  | IEC 320/C13 | 1830 | 6 |
| <a href="#">302JT104J9F0701JT(R)</a>  | North America / Japan / Taiwan (Type B – 15A)  | NEMA 5-15P (cULus approved), Japan JIS C 8303 (PSE Approved), Taiwan CNS 6797 (BSMI Approved) | IEC 320/C13 | 2800 | 9 |
| <a href="#">2313K3432M5701(R)</a>     | Korea (Type F)                                 | KS C 8305                                                                                     | IEC 320/C13 | 2500 | 8 |
| <a href="#">5804272M5701(R)</a>       | Russia (Type F)                                | GOST 7396                                                                                     | IEC 320/C13 | 2500 | 8 |
| <a href="#">2084272M5701(R)</a>       | South Africa (Type M)                          | South Africa SABS164-1 (16A type)                                                             | IEC 320/C13 | 2500 | 8 |
| <a href="#">23214272M5701(R)</a>      | Switzerland (Type J)                           | SEV 1011                                                                                      | IEC 320/C13 | 2500 | 8 |
| <a href="#">3003322M5701(R)</a>       | Taiwan (Type B)                                | BSMI                                                                                          | IEC 320/C13 | 2500 | 8 |
| <a href="#">6363762M5701(R)</a>       | Thailand (Type O)                              | TIS 166-2549                                                                                  | IEC 320/C13 | 2500 | 8 |
| <a href="#">PZ0800100-2M5BK13H(R)</a> | UK, Hong Kong, Singapore, Gulf States (Type G) | BS 1363A                                                                                      | IEC 320/C13 | 2500 | 8 |
| <a href="#">7055002M5701A(R)</a>      | International                                  | IEC 320 C14-C13                                                                               | IEC 320/C13 | 2500 | 8 |

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## Approvals

| Logo                                                                              | Description                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Declaration ДС № EAЭC N RU Д-US.KA01.B.10453_19 Custom Union of Russia, Belarus and Kazakhstan<br><a href="http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration">http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration</a> |
|  | UKCA Certification                                                                                                                                                                                                                                          |