

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

Model:GTM962254PWWWVX-XF

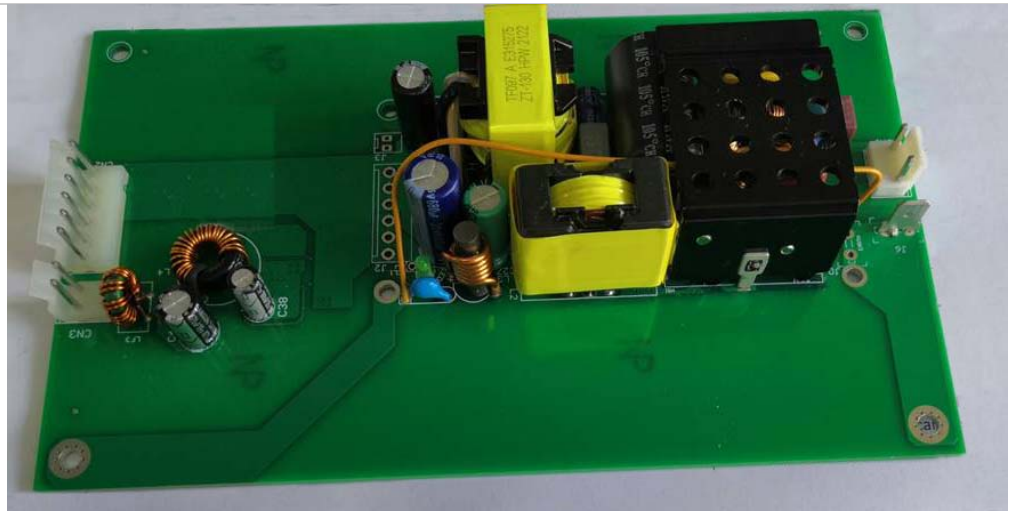
June 28, 2022

GTM962254PWWWVX-XF

Information

| | |
|--------------|--|
| Model Number | GTM962254PWWWVX-XF |
| Description | GTM962254PWWWVX-XF, ICT / ITE / Medical Power Supply, 60601-1-4th Ed. , Open Frame/ L Frame/Cage/ Potted Internal, Regulated Switchmode AC-DC Power Supply AC Adaptor, Forced airflow for full rated power (CFM): 10CFM, Input Rating: 100-240V~, 50-60 Hz, , Output Rating: 225 Watts, Power rating with convection cooling (W) 140W, 12-54V in 0.1V increments, Approvals: CB 60601-1 (pending); CE; China RoHS; UKCA; Morocco; EAC; WEEE; VCCI; Ukraine; Level VI; RoHS; cRUus pending; |

Model Picture



| | |
|-------------------------------|---|
| Agency Documents | http://www.globtek.info/certs/GTM96225xP%20/ |
| CE EC-Declaration | https://www.globtek.com/pdf/ec_declaration/a003a00000MljATEAZ |
| RoHS/RoHS2 Declaration | https://www.globtek.com/pdf/rohs_cert/a003a00000MljATEAZ |
| 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/ L Frame/Cage/ Potted 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) | 3A |
| Wattage (W) | 225.0 |
| Vout Range (V) | 12-54 |
| Efficiency Level | USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782 |
| Ingress Protection | N/A |
| Size (mm) | 101.6 (L) x 50.8 (W) x 31.0 (H) |

PROPRIETARY INFORMATION

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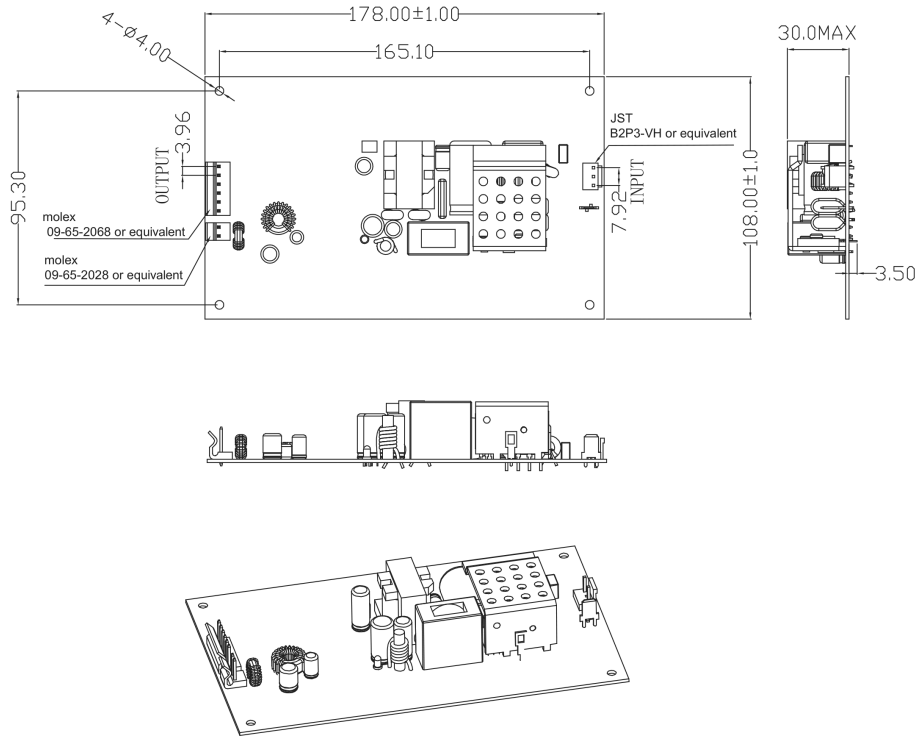
<https://www.globtek.com/datasheet/w70639>

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ENCLOSURE



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RATING TABLE

| Model Number | Voltage | Amps(A) | Watts(W) | RFQ |
|---------------------|---------|---------|----------|---------------------|
| GTM962254P13024B-EF | 24 V | 5 | 120.00 | RFQ |

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SPECIFICATIONS

Input

| | |
|----------------------|--|
| Input Voltage: | Specified: 85-264VAC, Nameplate: 100-240VAC |
| Input Frequency: | Specified: 47-63Hz, Nameplate: 50-60Hz |
| Input Current: | 2.75A typ. @ 85VAC, 1.0A typ. @ 230VAC (full load) |
| No Load Input Power: | < 500mW |
| Inrush Current: | < 75A @ 230VAC (cold start @ 25°C) |
| Efficiency: | 90 - 95% typ. (full load) |
| Power Factor: | >0.90 @ 115VAC, >0.85 @ 230VAC, full load |

General Output

| | |
|---------------------|---|
| Turn-on Delay: | < 1 second @ 85VAC |
| Line Regulation: | ± 0.5% (measured at connector) |
| Startup Overshoot: | < 5% (full load) |
| Transient Response: | < 5% deviation (with 25% load step), recovery to within 1% in 1ms |
| Hold-Up Time: | 10ms min. (full load) |
| Output Indicator: | Green LED |

Main Output

| | |
|------------------|--|
| Output Power: | 120W/24V |
| Load Regulation: | ± 1.0% (measured at connector) |
| Ripple: | < 1% pk-pk (using a 47µF low-ESR cap + 0.1µF ceramic capacitor, measured @ 20MHz BW) |

Auxiliary Output

| | |
|------------------|--|
| Output Power: | 10W/5V |
| Load Regulation: | ± 5.0% (measured at connector) |
| Ripple: | < 100mVpk-pk (using a 47µF low-ESR cap + 0.1µF ceramic capacitor, measured @ 20MHz BW) |

Protections

| | |
|--------------------------|---|
| Input Protection: | MOV transient suppressor, dual fuses (line + neutral) |
| Over-Voltage Protection: | 110-130% of main output. Latched-off, cycle AC to reset |
| Over-Current Protection: | Main output: 140% typical, auto-recovery Auxiliary output: 200% typical, auto-recovery |

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| | |
|------------------------------|---|
| Short Circuit Protection: | Non-latched with auto-recovery |
| Over-Temperature Protection: | NTC temperature sensor embedded in transformer, trip between 115 - 120°, latched-off, cycle AC to reset (auto-recovery available as special option) |

Environmental

| | |
|------------------------|---|
| MTBF: | 1,500,000 hours @ 25°C ambient, full load (Telcordia SR-332, Issue 3) |
| Operating Temperature: | -20°C to 50°C (full output power), -25°C to 80°C (derated) |
| Storage Temperature: | -30°C to 85°C |
| Humidity: | 0% to 95% relative humidity, non-condensing |
| Altitude: | 5000m max. |
| Vibration: | Conforms to EN60068-2-6, ISO80601-2, EN1789 |

Safety

| | |
|---|--|
| Dielectric Withstand Voltage: | 4000VAC or 5656VDC from input to output 3000VAC or 4242VDC from input to earth |
| Intended Medical Application: | Type-B or Type-BF |
| Touch Current: | 3-conductor input - NC: <25µA, SFC: <200µA 2-conductor input - NC: <65µA, SFC: <140µA |
| Earth Leakage Current | 3-conductor input: <200µA 2-conductor input: N/A |
| Means of Protection: | 2 x MOPP |
| Primary-Secondary Bridging Capacitance: | Two IEC60384-14 certified Y1 capacitors in series |

EMC

| | |
|--|---|
| Applicable Standards: | Medical: EN60601-1-2, 4th edition Emissions: EN55032, EN 55011, EN61000-6-3, EN61000-6-4, CISPR11/CISPR22 Immunity: EN55024, EN61000-6-1, EN61000-6-2 |
| Conducted Emissions: | Class B, FCC Part 15, Class B (with resistive load) |
| Radiated Emissions: | Class B, FCC Part 15, Class B (with resistive load) |
| Harmonic Current Voltage Distortion: | EN61000-3-2, Class A |
| Voltage Fluctuations/Flicker: | EN61000-3-3 |
| Electrostatic Discharge (ESD) Immunity: | EN61000-4-2, 10KV contact discharge, 20KV air discharge (applied to input or output terminals) |
| Radiated RF Immunity: | EN61000-4-3, 20V/m 80-2700MHz, 80% 1KHz AM, 80% 5Hz AM |
| EFT/Burst Immunity: | EN61000-4-4, 4KV/100kHz. |
| Line Surge Immunity: | EN61000-4-5, 2KV differential, 4KV common-mode |
| Conducted RF Immunity: | EN61000-4-6, 3VRMS, (6VRMS in ISM/amateur bands), 80% 1KHz AM |
| Power Frequency Magnetic Field Immunity: | EN61000-4-8, 30A/m |
| Voltage Dip Immunity: | EN61000-4-11 |

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Special Options

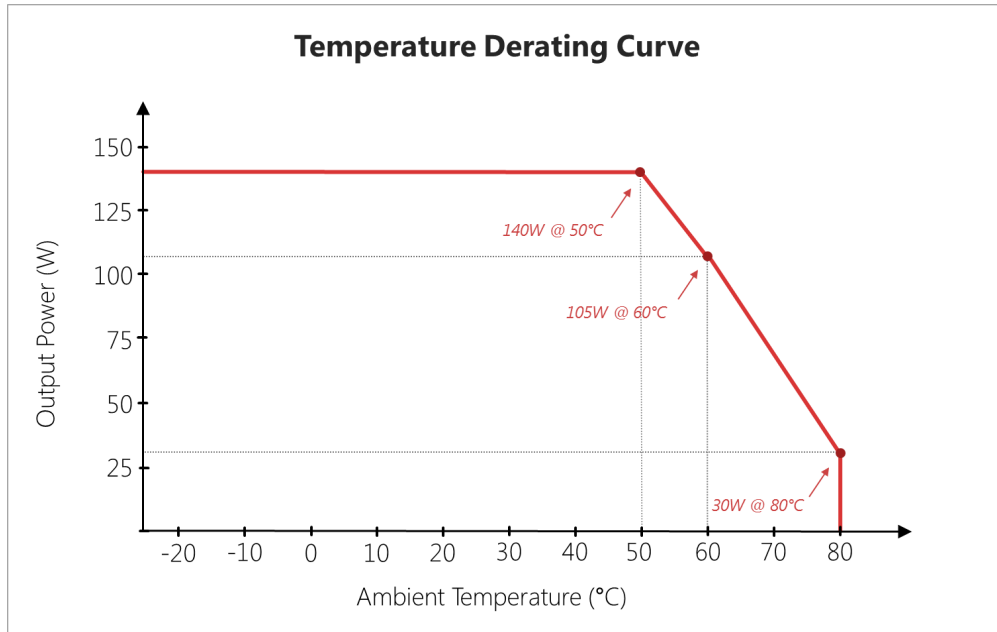
- Custom labels/markings
 - Short term output surge capability
 - Reduced touch current
 - Reduced output ripple
 - Compliance to IPC-600, IPC-610, IPC-6012 Class 2 or 3
 - IEC61000-3-2 Class-C line harmonics for LED lighting applications
 - Non-latching (auto-recover) over-temperature protection
 - Potentiometer to adjust/trim output voltage
-

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DERATING CURVE



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INPUT CONFIGURATION

Description











Optional Input Wiring Kits are available:

| PN/Ordering No | Length | End A | End B |
|-------------------------------------|--------|---------------|-----------|
| C810070M6VAR2(R) | 60 | IEC 60320 C8 | JST VAR-2 |
| C1410070M6VAR2(R) | 60 | IEC 60320 C13 | JST VAR-2 |
| VAR2210070M7VAR2(R) | 73 | JST VAR-2 | JST VAR-2 |

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





Approvals

| Logo | Description |
|--|--|
|  | Attention Mark / Refer to operating manual for operating and service instructions |
| No Logo Applicable | CB for IEC 60601-1:2005 (Third Edition) + CORR. 1 (2006) + CORR. 2 (2007) + AM1 (2012) or IEC 60601-1 (2012 reprint) (Ed 3.1) up to 48V only (pending) |
|  | CE Certification |
|  | CHINA SJ/T 11364-2014, China RoHS Chart: http://en.globtek.com/globtek-rohs.php |
|  | cRUus UL Recognized Component E341350 3rd Edition w-RM ANSI-AAMI ES60601-1 (2005 + C1:09 + A2:10) and CAN-CSA-C22.2 No. 60601-1:14 (2008) (pending) |
|  | Certification # TC RU AR46.B.75423 Custom Union of Russia, Belarus and Kazakhstan |
|  | Indoor Use Only - Mark is on the label or Molded in the case |
| 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) |
|  | Morocco SDoC declaration http://www.globtek.info/certs/Morocco%20SDoC%20Declaration/ |
| 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 |
| | |

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| | |
|--|--|
|  | <p>UKCA Certification</p> |
|  10276 | <p>Ukraine UKRSepro (Document: www.globtek.com/html/iso_certificates/GT_Ukraine.pdf)</p> |
|  | <p>Japan: Voluntary Control Council for Interference (VCCI)</p> |
|  | <p>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</p> |