

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

Model:GT-86240-WWVV-X.X-W2

May 20, 2024

## GT-86240-WWVV-X.X-W2

### Information

|              |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Number | GT-86240-WWVV-X.X-W2                                                                                                                                                                                                                                                                                                                                                                                                   |
| Description  | GT-86240-WWVV-X.X-W2, ICT/ITE Power Supply, Wall Plug-in, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60Hz, NEMA 1-15P, North America Blades, Class II 2 Conductors, Output Rating: 24 Watts, Power rating with convection cooling (W) , 12VV in 0.1V increments, Approvals: cULus; PSE; WEEE; VCCI; Ukraine; RoHS; LPS 60950; Level VI; Double Insulation; China RoHS; CE; EAC; |

### Model Picture



|                               |                                                                                                                                           |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Agency Documents              | <a href="http://www.globtek.info/certs/GT-86240(-W2)/">http://www.globtek.info/certs/GT-86240(-W2)/</a>                                   |
| CE EC-Declaration             | <a href="https://www.globtek.com/pdf/ec_declaration/a0Oa000000MnaWqEAJ">https://www.globtek.com/pdf/ec_declaration/a0Oa000000MnaWqEAJ</a> |
| RoHS/RoHS2 Declaration        | <a href="https://www.globtek.com/pdf/rohs_cert/a0Oa000000MnaWqEAJ">https://www.globtek.com/pdf/rohs_cert/a0Oa000000MnaWqEAJ</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**

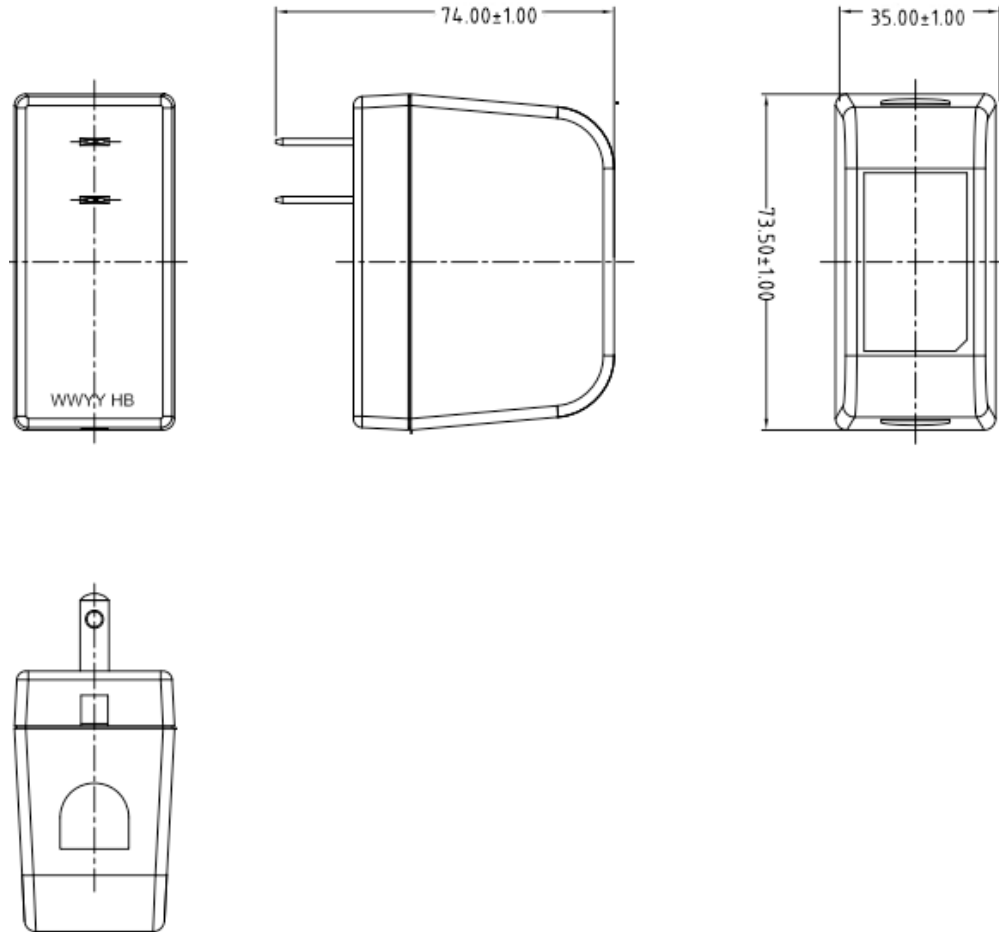
|                    |                                                                     |
|--------------------|---------------------------------------------------------------------|
| Type               | Wall Plug-in                                                        |
| Technology         | Regulated Switchmode AC-DC Power Supply AC Adaptor                  |
| Category           | ICT/ITE Power Supply                                                |
| Input Voltage      | 100-240V~, 50-60Hz                                                  |
| I/P Amps (A)       | 0.8A                                                                |
| Wattage (W)        | 24.0                                                                |
| Vout Range (V)     | 12V                                                                 |
| Efficiency Level   | USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782 |
| Ingress Protection | IPX0                                                                |
| Size (mm)          | 73.5*35*57                                                          |

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## ENCLOSURE



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## RATING TABLE

| Model Number     | Voltage | Amps(A) | Watts(W) | RFQ                 |
|------------------|---------|---------|----------|---------------------|
| GT-86240-2412-W2 | 12 V    | 2       | 24.00    | <a href="#">RFQ</a> |

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## SPECIFICATIONS

### A) ELECTRICAL SPECIFICATIONS:

- 01. Input Voltage: Specified 90-264 Vac, Nameplate rated: 100-240Vac
- 02. Input Frequency: Specified 47-63 Hz, Nameplate rated 50-60Hz
- 03. Output Regulation: +/- 5%
- 04. Ripple and Noise (Vp-p): 300 mVp-p maximum, At 20 MHz, and output parallel with 0.1uF & 47uF capacitors to ground.  
Temperature  
at 25 °C, and nominal input voltage
- 05. Efficiency: Compliant with Efficiency Level VI and CoC Tier 2 standards
- 07. No Load Standby Power: <0.075W @ 230Vac
- 08. Turn-ON Delay: 3 Seconds maximum at nominal input voltage
- 09. Rise Time: 100mS maximum at nominal input voltage

### B) PROTECTION

- 01. Over-Voltage: 20VDC maximum
- 02. Over current protection: 4A maximum with auto-recovery function
- 03. Short Circuit: Short circuit protection is to be included in the construction of the adaptor. The adaptor is designed to withstand continuous current of a short circuit on the output. The adaptor will be short circuit tolerant for an indefinite period.

### C) SAFETY

- 01. Dielectric Withstand Voltage: 4242Vdc from primary to secondary
- 02. Leakage current: 0.25mA maximum, at nominal AC input voltage and frequency
- 03. ESD: 8KV(air) / 4KV (contact)

### D) OTHER:

- 01. MTBF: 200,000 Hours @ 25°C ambient temperature
- 02. Operating Temperature: 0°C to 40°C ambient temperature
- 03. Humidity: 0% to 90% relative humidity
- 04. Storage Temperature: -10°C to 80°C
- 05. Cooling: natural convection cooling
- 06. ROHS 2: Complies with EU 2011/65/EU and China SJ/T 11363-2006

### E) ENCLOSURE

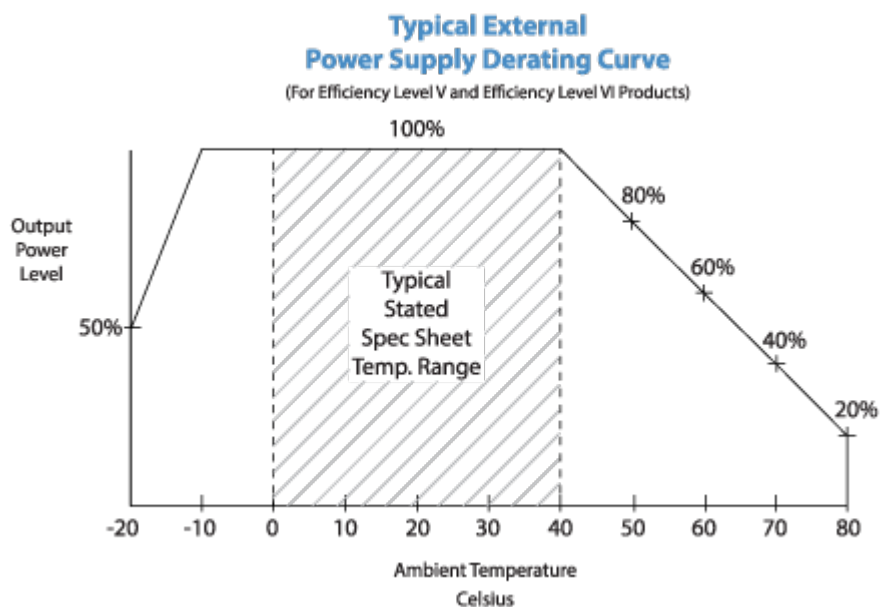
- 01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
- 02. Markings: Label and/or Pad Printed and/or Molded in the case

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## DERATING CURVE



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**INPUT CONFIGURATION**

| Description | NEMA 1-15P, North America Blades, Class II 2 Conductors |
|-------------|---------------------------------------------------------|
|-------------|---------------------------------------------------------|

All NEMA 1 devices are two-wire non-grounding devices (hot-neutral) rated for 125 V maximum. NEMA 1-15P plugs have two parallel flat blades, 0.25 inches (6.35 mm) wide, 0.06 inches (1.524 mm) thick, 0.625-0.718 inches (15.875–18.256 mm) long, and spaced 0.5 inches (12.7 mm) apart.

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## OUTPUT CONFIGURATION

Common output connector options:



L Type (Coaxial  
5.5x2.5mm plug)



C Type (Coaxial  
5.5x2.1mm plug)



K Type (Coaxial  
3.5x1.3mm plug)



LL Type (5.5x2.5mm  
Locking 760k type)



CL Type (5.5x2.1mm  
Locking S761k type)



ML2 Type (Molex  
housing 43025-0200)



YL3 Type  
(KPPX-3P)



YL4 Type (KPPX-4P)



EJ1/2/3/4/5 (EIAJ  
RC-5320A type  
connectors)



MSB Type (Micro  
USB)



USBC Type (USB  
Type C)



Inquire for custom  
design

For a comprehensive list of options, [click here](#)

Contact GlobTek for your specific requirements or custom solutions.

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## Approvals

| Logo                                                                                | Description                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | Attention Mark / Refer to operating manual for operating and service instructions                                                                                                                                                                              |
|    | CE Mark: tested to comply with EN55022:2010 Class B, EN61000-3-2, EN61000-3-3 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        |
|    | 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%205-20-22.pdf">http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%205-20-22.pdf</a>                    |
|    | UL 60950-1, 2nd Edition, 2014-10-14 (Information Technology Equipment - Safety - Part 1: General Requirements) CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10 (Information Technology Equipment - Safety - Part 1: General Requirements)                   |
|  |                                                                                                                                                                                                                                                                |
|  | Declaration ДС № EAЭC N RU Д-US.KA01.B.10453_19 Custom Union of Russia, Belarus and Kazakhstan <a href="http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration">http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration</a>       |
|  | Indoor Use Only - Mark is on the label or Molded in the case                                                                                                                                                                                                   |
|  | JAPAN TUV R-PSE, Cert. No. JD 50473430, to J62368-1(H30) , J55032(H29),J3000(H25)[15V or less]. Please reference the following website for guidelines on PSE regulations:<br><a href="https://www.globtek.com/r2/Szj4Vb">https://www.globtek.com/r2/Szj4Vb</a> |
|  | 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                                                                                                                                                                                                                                     |
| RoHS                                                                                | Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863-EU (ROHS-3)<br><a href="http://www.ce-mark.com/Rohs%20final.pdf">http://www.ce-mark.com/Rohs%20final.pdf</a>                                                                  |
|                                                                                     |                                                                                                                                                                                                                                                                |

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|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>10276 | Ukraine UKR Sepro (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_en.htm">http://ec.europa.eu/environment/waste/weee/index_en.htm</a> )<br>Mark is on the label or Molded in the case |