

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

Model:GT-86120-WWVV-X.X-W2B

June 28, 2022

## GT-86120-WWVV-X.X-W2B

### Information

|              |  |
|--------------|--|
| Model Number | GT-86120-WWVV-X.X-W2B  |
| Description  | GT-86120-WWVV-X.X-W2B, ICT/ITE Power Supply, Wall Plug-in, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V- , 50/60Hz, The Brazilian NBR 14136:2002 is standard for Brazilian plugs and receptacle, Output Rating: 12 Watts, Power rating with convection cooling (W) , 4.2V-12VV in 0.1V increments, Approvals: CB 60950; China RoHS; Double Insulation; Level VI; LPS 60950; RoHS; Ukraine; WEEE; CB 62368; EAC; LPS 62368; |

### Model Picture



|                               |   |
|-------------------------------|---|
| Agency Documents              | <a href="http://www.globtek.info/certs/GT-86120-WWVV-W2Z/">http://www.globtek.info/certs/GT-86120-WWVV-W2Z/</a>                           |
| CE EC-Declaration             | <a href="https://www.globtek.com/pdf/ec_declaration/a0O0c00000PHJ0iEAH">https://www.globtek.com/pdf/ec_declaration/a0O0c00000PHJ0iEAH</a> |
| RoHS/RoHS2 Declaration        | <a href="https://www.globtek.com/pdf/rohs_cert/a0O0c00000PHJ0iEAH">https://www.globtek.com/pdf/rohs_cert/a0O0c00000PHJ0iEAH</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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June 28, 2022

**MODEL PARAMETERS**

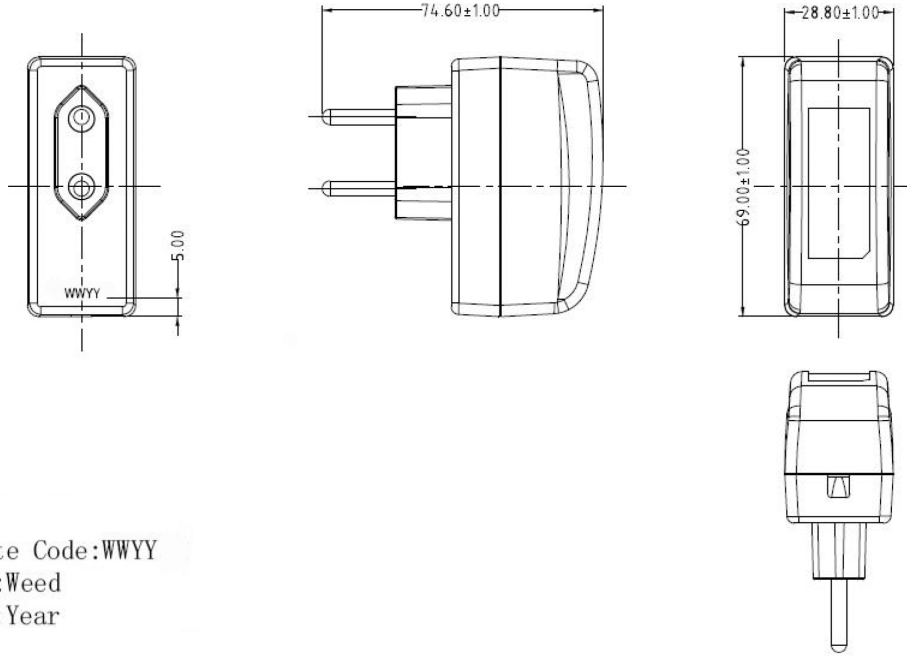
|                    |   |
|--------------------|---|
| Type               | Wall Plug-in  |
| Technology         | Regulated Switchmode AC-DC Power Supply AC Adaptor                  |
| Category           | ICT/ITE Power Supply  |
| Input Voltage      | 100-240V , 50/60Hz  |
| I/P Amps (A)       | 0.5A  |
| Wattage (W)        | 12.0  |
| Vout Range (V)     | 4.2V-12V  |
| Efficiency Level   | USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782 |
| Ingress Protection | IPX0  |
| Size (mm)          | 69*28.8*58.3  |

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# ENCLOSURE



Date Code:WWYY  
WW:Week  
YY:Year

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June 28, 2022

**RATING TABLE**

| Model Number | Voltage | Amps(A) | Watts(W) | RFQ |
|--------------|---------|---------|----------|-----|
|--------------|---------|---------|----------|-----|

## SPECIFICATIONS

### 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): 100 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 ErP European Commission's Ecodesign Directive (2005/32/EC) / CoC Tier 2 Compliant
06. No Load Standby Power: <0.075W @ 230Vac
07. Turn-ON Delay: 3 Seconds maximum at nominal input voltage
08. Rise Time: 100mS maximum at nominal input voltage

### B) PROTECTION

01. Over-Voltage: 10VDC 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: 3000VAC 10mA 1minute or 4242VDC 10mA 1minute from primary to secondary
02. Leakage current: 0.25mA maximum, at nominal AC input voltage and frequency
03. Static Discharge Immunity of 8kV Contact Discharge, 15kV air discharge.

### D) EMC

01. Emissions, per EN 55032, EN 61000-6-3, EN 61000-6-4
  - Conducted Emissions: Class B, FCC Part 15, Class B
  - Radiated Emissions: Class B, FCC Part 15, Class B
02. Line Frequency Harmonics EN61000-3-2, Class A
03. Voltage Fluctuations/Flicker EN61000-3-3
04. Immunity, per EN 55024, EN 61000-6-1, EN 61000-6-2
  - Static Discharge Immunity EN61000-4-2, 4kV Contact Discharge, 8kV air discharge
  - Radiated RF Immunity EN61000-4-3, 3V/m 80-1000MHz, 80% 1KHz AM.
  - EFT/Burst Immunity EN61000-4-4, 1kV/100kHz.
  - Line Surge Immunity EN61000-4-5, 1kV differential, 2kV common-mode
  - Conducted RF Immunity EN61000-4-6, 3Vrms, 80% 1KHz AM
  - Power Frequency Magnetic Field Immunity EN61000-4-8, 1A/m
  - Voltage Dip Immunity EN61000-4-11, Criteria

### E) OTHER:

01. MTBF: 200,000 Hours @ 25°C ambient temperature
02. Operating Temperature: 0°C to 50°C ambient temperature (RFP7139)
03. Humidity: 5% to 90% relative humidity
04. Storage Temperature: -20°C to 60°C
05. Cooling: natural convection cooling
06. ROHS 2: Complies with EU 2011/65/EU and China SJ/T 11363-2006

### PROPRIETARY INFORMATION

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<https://www.globtek.com/datasheet/w70336>

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June 28, 2022

## F) ENCLOSURE

01. Housing: High impact plastic, 94V0 polycarbonate, non-vented

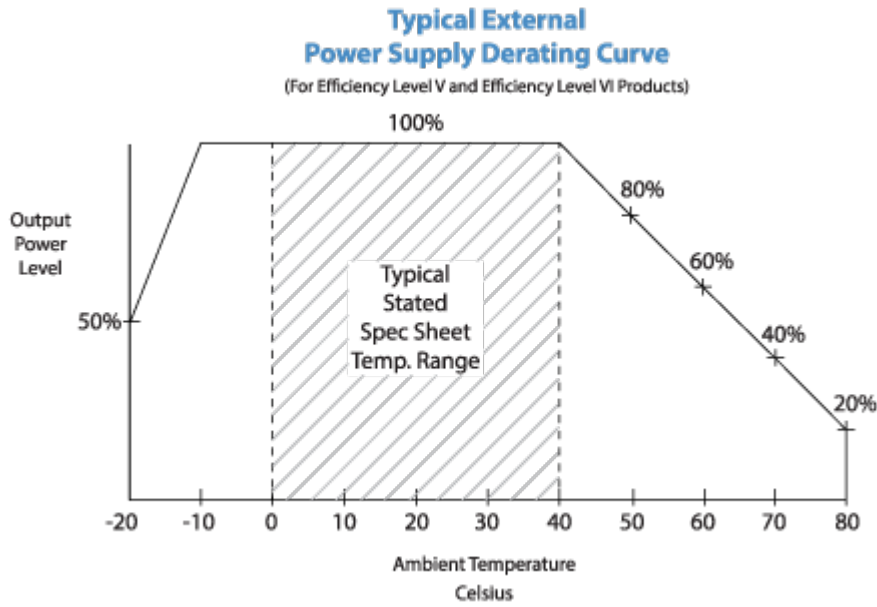
02. Markings: Label and/or Pad Printed and/or Molded in the case

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June 28, 2022

## DERATING CURVE



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June 28, 2022

**INPUT CONFIGURATION**

Description The Brazilian NBR 14136:2002 is standard for Brazilian plugs and receptacle

This standard is based on the international IEC 60906-1 standard, developed to encourage countries to adopt one plug and receptacle for global use. The standard does not include a medical grade plug. Brazil uses 110-220 Volts and 60 Hz.



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June 28, 2022

**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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June 28, 2022

## Approvals

| Logo   | Description   |
|--|---|
|                     | Attention Mark / Refer to operating manual for operating and service instructions   |
| No Logo Applicable   | CB report to IEC 60950-1:2005 (2nd Edition) +A1:2009 + A2:2013  |
| No Logo Applicable   | CB for IEC 62368-1:2014 (Second Edition)  |
|                   | CHINA SJ/T 11364-2014, China RoHS Chart:<br><a href="http://en.globtek.com/globtek-rohs.php">http://en.globtek.com/globtek-rohs.php</a>   |
| Conforms to UL STD. 62368-1<br>Certified to CSA STD C22.2 NO.62368-1                                 | Conforms to UL STD. 62368-1<br>Certified to CSA STD C22.2 NO.62368-1  |
|                   |   |
|                   | 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> |
|                   | 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)  |
| LPS  | Limited Power Source 60950  |
| LPS  | Limited Power Source 62368  |

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June 28, 2022

|   |   |
|---|---|
| RoHS  | Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863-EU (ROHS-3) <a href="http://www.ce-mark.com/Rohs%20final.pdf">http://www.ce-mark.com/Rohs%20final.pdf</a>                        |
|  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> )  |
|        | 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 |