

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

Model:GT-86182-WWVV-W2-USB

May 20, 2024

## GT-86182-WWVV-W2-USB

### Information

|              |                                                                         |
|--------------|-------------------------------------------------------------------------|
| Model Number | GT-86182-WWVV-W2-USB                                                    |
| Description  | Quick Charge 2.0 & 3.0 BC1.2, APPLE 2.4A., SAMSUNG 2.0A, FCP, SFCP, AFC |

### Model Picture



|                               |                                                                                                                                           |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Agency Documents              | <a href="http://www.globtek.info/certs/GT-86182-W(F)2-USB/">http://www.globtek.info/certs/GT-86182-W(F)2-USB/</a>                         |
| CE EC-Declaration             | <a href="https://www.globtek.com/pdf/ec_declaration/a0O3a00000Lu5ixEAB">https://www.globtek.com/pdf/ec_declaration/a0O3a00000Lu5ixEAB</a> |
| RoHS/RoHS2 Declaration        | <a href="https://www.globtek.com/pdf/rohs_cert/a0O3a00000Lu5ixEAB">https://www.globtek.com/pdf/rohs_cert/a0O3a00000Lu5ixEAB</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         | USB Adaptive Power Supply AC Adaptor                                |
| Category           | ICT/ITE Power Supply                                                |
| Input Voltage      | 100-240V~, 50/60Hz                                                  |
| I/P Amps (A)       | 0.6 A                                                               |
| Wattage (W)        | 18.0                                                                |
| Vout Range (V)     | 5/9/12V_QC3.0, BC1.2, APPLE 2.4A., SAMSUNG 2.0A, FCP, SFCP, AFC     |
| Efficiency Level   | USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782 |
| Ingress Protection | Indoor Use                                                          |
| Size (mm)          | 39.0 (L) * 23.9 (W) * 51.5(H) mm                                    |

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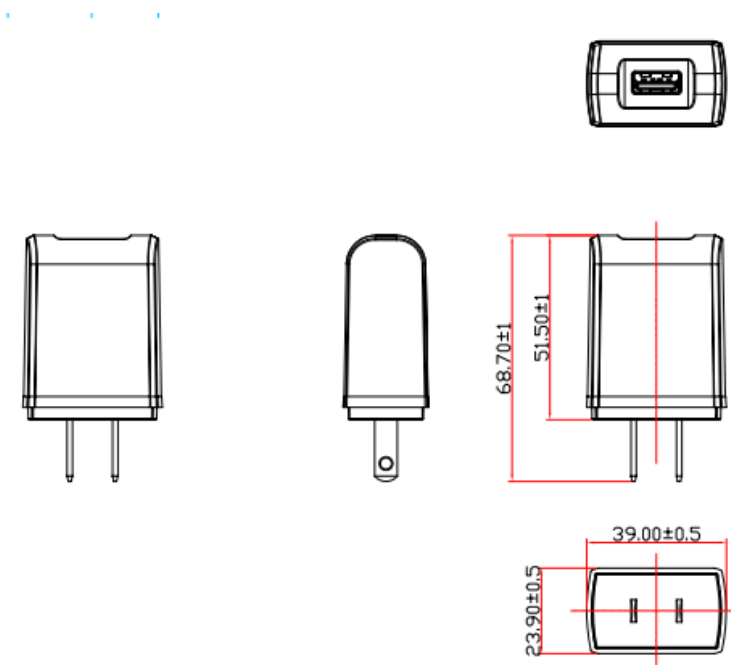
<https://www.globtek.com/ds/AiGBu5sbaeb/hTvwkbATGNr.html>

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## ENCLOSURE



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## RATING TABLE

| Model Number         | Voltage  | Amps(A) | Watts(W) | RFQ                 |
|----------------------|----------|---------|----------|---------------------|
| GT-86182-1812-W2-USB | 5,9,12 V | 1.5     | 18.00    | <a href="#">RFQ</a> |

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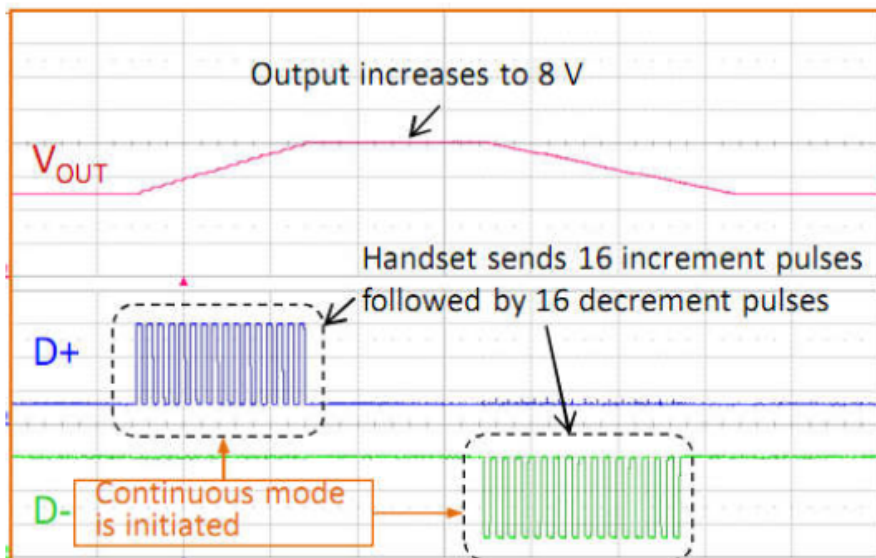
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## SPECIFICATIONS

### 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. Inrush Current: at full load, 25° C, cold start
04. Efficiency: Compliant with Efficiency Level VI and ErP European Commission's Ecodesign Directive (2005/32/EC) / CoC Tier 2 Compliant
05. No Load Standby Power: <0.075W @ 230Vac
06. Line regulation:  $\pm 2\%$  At nominal input voltage and full load
07. Total output regulation:  $\pm 5\%$
08. Output Voltage: Tolerance  $\pm 5\%$
09. Turn On Delay: 3 Seconds maximum at nominal input Voltage
10. Hold Up Time: 5ms min at nominal Input Voltage
11. Ripple Voltage: 200 mVp-p At 20 MHz, and output parallel with 0.1uF & 10uF capacitors to ground Temperature at 25°C, and nominal input voltage
12. Compliant with CLASS A Qualcomm Quick Charge 3.0 and Quick Charge 2.0. 3.6V~12V DC with 18 watts maximum output. Also compliant with BC1.2, APPLE 2.4A., SAMSUNG 2.0A, FCP, SFCP, AFC

## Quick Charger 3.0 protocol



### B) PROTECTION

01. Over voltage protection: Output shut down and auto restart
02. Short circuit protection: The adapter shall not be damaged by short the DC output to Ground
03. Over Load Protection: Output shut down and auto restart

### C) SAFETY

01. HI-POT : Input to output : 3000VAC or 4242VDC 10mA 1 minute

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- 02. Leakage current: 0.25mA maximum, at nominal AC input voltage and frequency
- 03. ESD: 8KV(air) / 4KV (contact)

**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 40°C ambient temperature
- 03. Humidity Operating : 20% to 85%
- 04. Storage Temperature: -20°C to 60°C
- 05. RoHS 2: Complies with EU 2011/65/EU and China GB/T26572-2011

**F) ENCLOSURE**

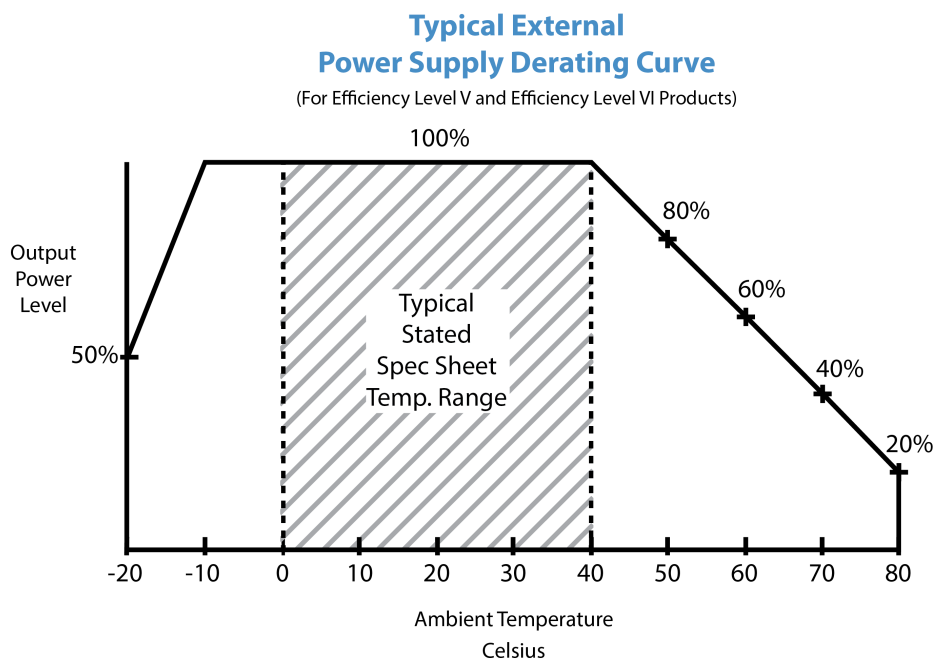
- 01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
- 02. Size: 38.7 (L) \* 23.7 (W) \* 51.5(H) mm maximum
- 03. Weight : 48.0 g
- 04. Markings: Label and/or Pad Printed and/or Molded in the case

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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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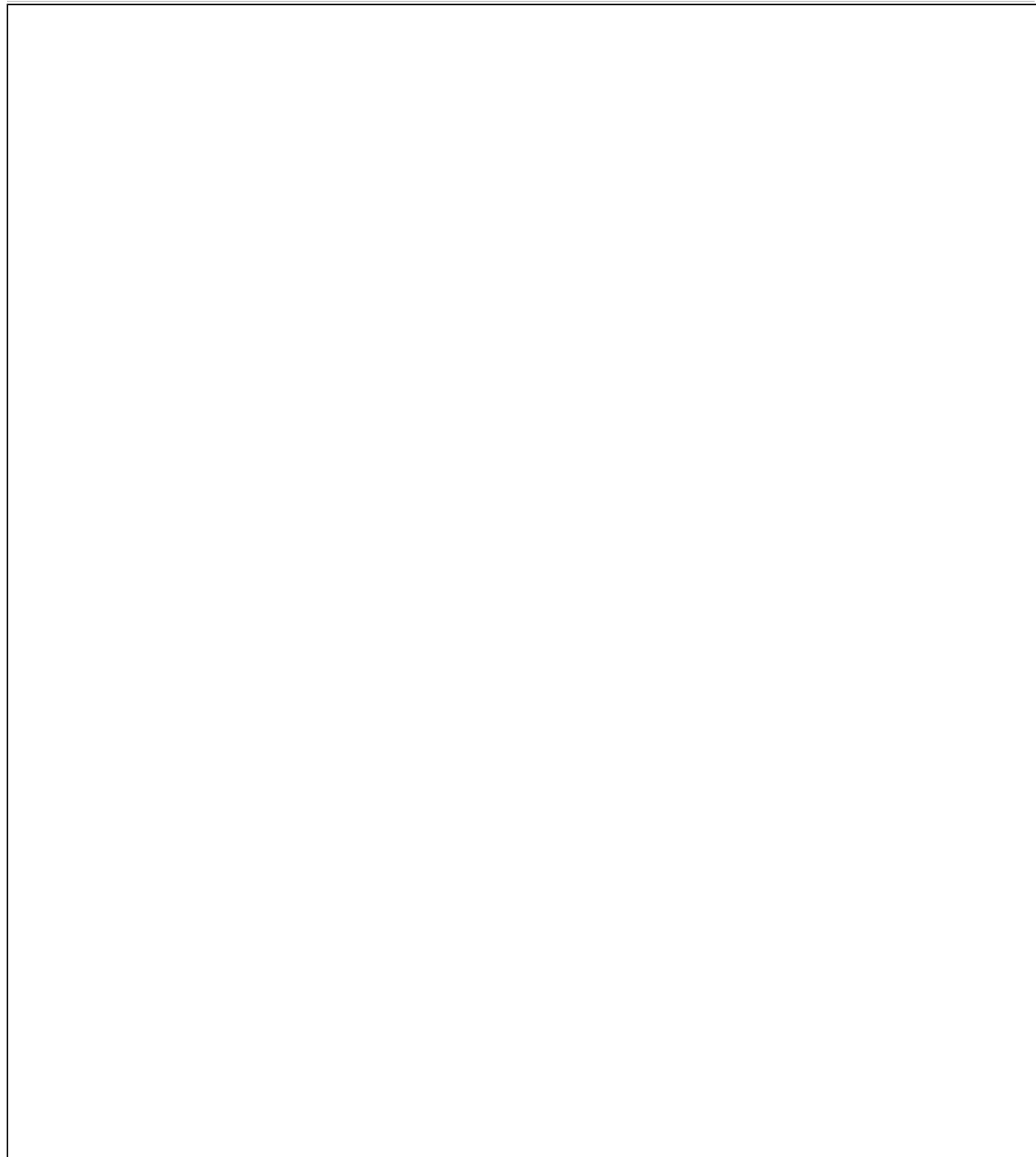
## Approvals

| Logo                                                                                | Description                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | 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)<br>CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10 (Information Technology Equipment - Safety - Part 1: General Requirements)                |
|    |                                                                                                                                                                                                                                                                |
|   | Declaration ДС № EAЭС 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> |
| 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>                                                                  |
|  | 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                                              |

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