

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

Model:GT-83082-3612-W2E

July 24, 2021

## GT-83082-3612-W2E

### Information

|                               |                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Number                  | GT-83082-3612-W2E                                                                                                                                                                                                                                                                                                                                                                                     |
| Description                   | GT-83082-3612-W2E, ICT/ITE Power Supply, Wall Plug-in, Regulated Switchmode AC-DC; Current Limited Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, European CEE 7/16 configuration:EN 50075 Europlug 2 PIN, Output Rating: 36 Watts, Power rating with convection cooling (W) , 12V in 0.1V increments, Approvals: CB 60950; Double Insulation; CE; RoHS; WEEE; SIQ; Ukraine; Level VI; |
| Model Picture                 |                                                                                                                                                                                                                                                                                                                      |
| Agency Documents              | <a href="http://www.globtek.info/certs/GT-83082-W2Z/">http://www.globtek.info/certs/GT-83082-W2Z/</a>                                                                                                                                                                                                                                                                                                 |
| CE EC-Declaration             | <a href="https://www.globtek.com/pdf/ec_declaration/a00a000000MiZX8EAN">https://www.globtek.com/pdf/ec_declaration/a00a000000MiZX8EAN</a>                                                                                                                                                                                                                                                             |
| RoHS/RoHS2 Declaration        | <a href="https://www.globtek.com/pdf/rohs_cert/a00a000000MiZX8EAN">https://www.globtek.com/pdf/rohs_cert/a00a000000MiZX8EAN</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; Current Limited Power Supply AC Adaptor |
| Category           | ICT/ITE Power Supply                                                |
| Input Voltage      | 100-240V~, 50-60 Hz                                                 |
| I/P Amps (A)       | 1.0A                                                                |
| Wattage (W)        | 36.0                                                                |
| Vout Range (V)     | 12                                                                  |
| Efficiency Level   | USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782 |
| Ingress Protection |                                                                     |
| Size (mm)          | 94(L)*34(W)*91.85 (H) mm maximum                                    |

**PROPRIETARY INFORMATION**

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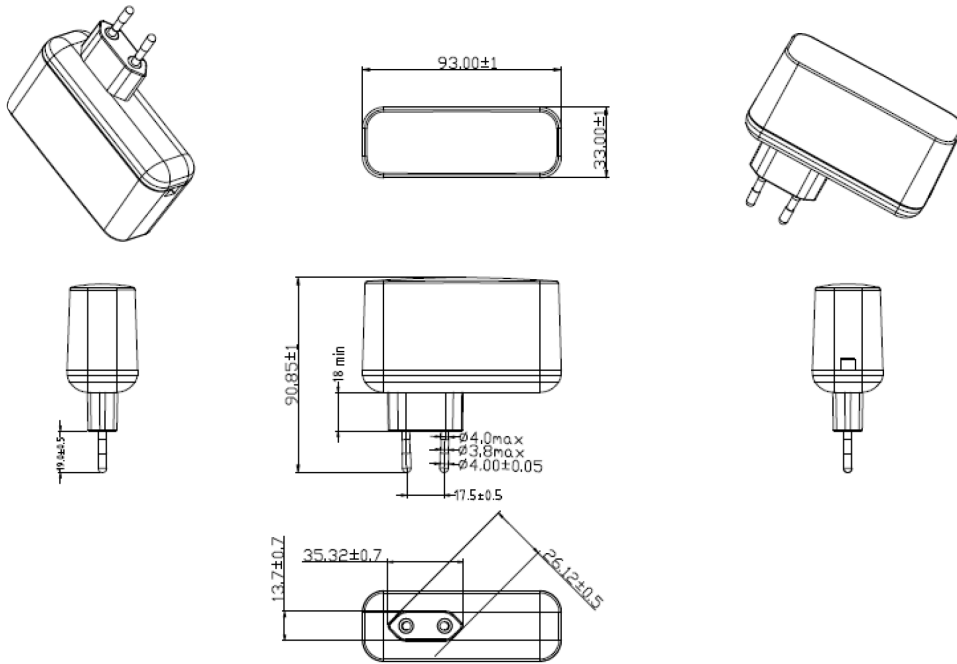
<https://en.globtek.com/datasheet/id/a0Oa000000MiZX8>

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# ENCLOSURE



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## RATING TABLE

| Model Number      | Voltage | Amps(A) | Watts(W) | RFQ                 |
|-------------------|---------|---------|----------|---------------------|
| GT-83082-3612-W2E | 12 V    | 3       | 36.00    | <a href="#">RFQ</a> |
| GT-83082-3012-W2E | 12 V    | 2.5     | 30.00    | <a href="#">RFQ</a> |

## SPECIFICATIONS

01. Input Voltage: Specified 90-264 Vac, Nameplate rated: 100-240Vac
02. Input Frequency: Specified 47-63 Hz, Nameplate rated 50-60Hz
03. The adapter input/output are full range AC input and +12V DC with 36 watts maximum output.
04. NOMINAL AC INPUT VOLTAGE 1 A maximum, No damage shall be occurred and the input fuse shall not be blown up.
05. POWER CONSUMPTION: 115VAC/230VAC INPUT , power consumption less than 0.1W
- 06.200 mVp-p maximum Ripple and Noise:At 20 MHz, and output parallel with 0.1uF & 47uF capacitors to ground. Temperature at 25°C, and nominal input voltage (Optional 120 mVp-p maximum Ripple)
07. Turn-ON Delay: 3 Seconds maximum at nominal input voltage
08. Inrush Current: at full load, 25°C, cold start
09. RISE TIME: 100mS maximum at nominal input voltage
- 10.Efficiency: Compliant with Efficiency Level VI and CoC Tier 2 standards
11. No Load Standby Power: <0.075W @ 230Vac
12. Capacitance load ability(CR mode): 12V,Output set CR mode,and 4000uF capacitor @115Vac/60Hz and 230Vac/50Hz ; 0% and 100% load
13. OUTPUT REGULATION +/-5%

### B) PROTECTION

01. Over-current protection
02. Over-voltage protection
03. Short-circuit protection: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: Primary To Secondary: 3000VAC 10mA 1minute or 4242VDC 10mA 1minute
02. 0.25mA maximum, at nominal AC input voltage and frequency
03. Touch Current: <0.25mA @ 240Vac input voltage

### 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

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## E) OTHER:

01. MTBF: 200,000 Hours @ 25°C ambient temperature
02. Operating Temperature: -5 °C TO 45 °C
03. Operating Humidity: 20 ~ 85 % RH. non-condensing
05. Storage Temperature: -20 °C TO +80 °C
06. Storage Humidity:5 ~ 95 % RH. non-condensing
07. Cooling: Cooling shall be with natural convection cooling
08. RoHS 2: Complies with EU 2011/65/EU China SJ/T 11364-2014

## 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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## DERATING CURVE



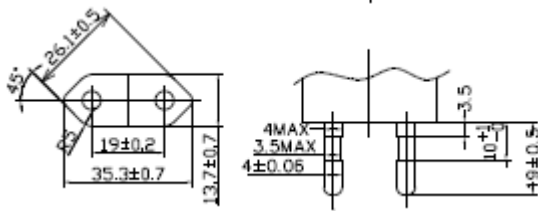
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**INPUT CONFIGURATION**Description European CEE 7/16 configuration:EN 50075 Europlug 2 PIN

The prongs of the Europlug are 19 mm long. They consist of a 9 mm long conductive tip of 4 mm diameter with a rounded ending, followed by a 10 mm long flexible insulated shaft of not more than 3.8 mm diameter. The two prongs are not exactly parallel and converge slightly; their centres are 19 mm apart at the tip and 18.6 mm apart at the base. The elasticity of the converging prongs provides sufficient contact force for the Europlug's current rating with a variety of socket-hole arrangements. The entire plug is 35.3 mm wide and 13.7 mm high, and must not exceed these dimensions within 18 mm behind its front plane (this allows for the recesses on many European socket types). The left and right side of the plug are formed by surfaces that are at 45° relative to the horizontal plan.





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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                                                                                                                                                                             |
| No Logo                                                                                              | CB Certificate IEC 60950-1:2005 (2nd Edition), Am 1: 2009, CB report IEC 60950-1:2005 (2nd Edition), Am 1: 2009 and EN 60950-1:2006 + Am 1:2010 + Am 11:2009 + Am 12:2011                                                                                     |
|                     | CE Mark: tested to comply with EN55022:2006/A1:2007 Class B, EN610003-2, EN610003-3 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 |
|                     |                                                                                                                                                                                                                                                               |
|                    | 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)                                                    |
| 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>                                                                    |
| <br>IEC/EN60950-1 | SIQ Mark License EN60950-1                                                                                                                                                                                                                                    |
| <br>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                                             |