

Model:GT-83083-0505-USB-W2U

May 20, 2024

## Level VI Power Supply / Charger, 5v, 1.0A, for England and United Kingdom with integral USB Jack

### Information

|              |  |
|--------------|--|
| Model Number | GT-83083-0505-USB-W2U  |
| Description  | GT-83083-0505-USB-W2U, ICT/ITE Power Supply, Wall Plug-in, AC/DC Switching Adapter with USB Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60Hz, UK BS 1363 configuration: UK 2 Blades Class I, Output Rating: 5 Watts, Power rating with convection cooling (W) , 5V in 0.1V increments, Approvals: UKCA; LPS 62368; UKCA; China RoHS; Double Insulation; Level VI; RoHS; CE; WEEE; CB 60950; LPS 60950; SIQ; |

### Model Picture



|                               |   |
|-------------------------------|---|
| Agency Documents              | <a href="http://www.globtek.info/certs/GT-83083-USB-W2Z/">http://www.globtek.info/certs/GT-83083-USB-W2Z/</a>                             |
| CE EC-Declaration             | <a href="https://www.globtek.com/pdf/ec_declaration/a00a000000MEmxJEAT">https://www.globtek.com/pdf/ec_declaration/a00a000000MEmxJEAT</a> |
| RoHS/RoHS2 Declaration        | <a href="https://www.globtek.com/pdf/rohs_cert/a00a000000MEmxJEAT">https://www.globtek.com/pdf/rohs_cert/a00a000000MEmxJEAT</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**

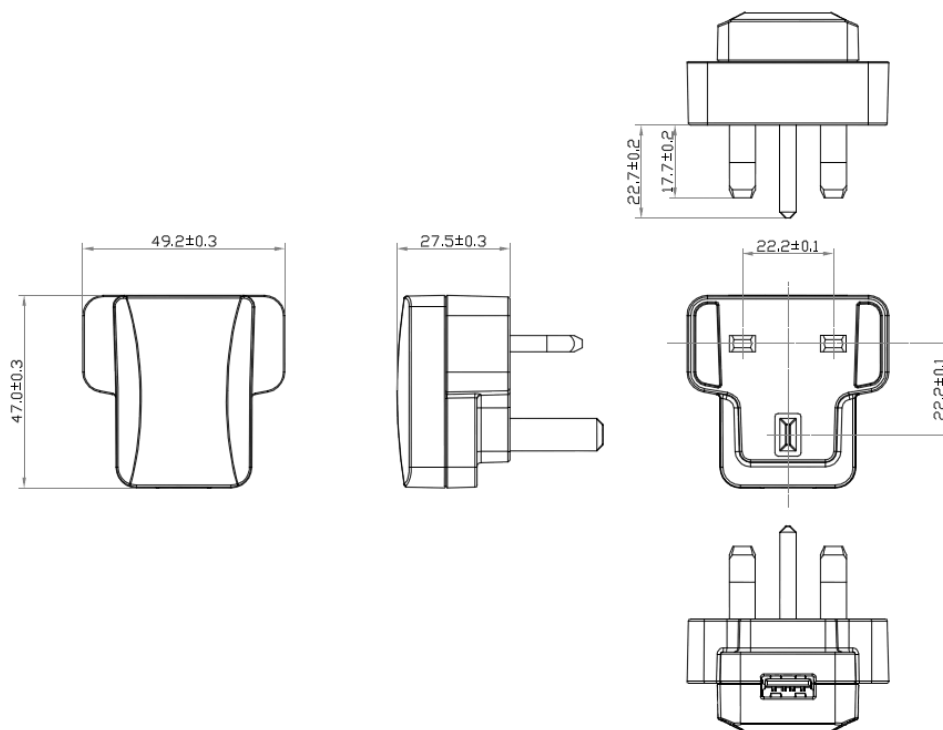
|                    |   |
|--------------------|---|
| Type               | Wall Plug-in  |
| Technology         | AC/DC Switching Adapter with USB Power Supply AC Adaptor            |
| Category           | ICT/ITE Power Supply  |
| Input Voltage      | 100-240V~, 50-60Hz  |
| I/P Amps (A)       | 0.2A  |
| Wattage (W)        | 5.0   |
| Vout Range (V)     | 5   |
| Efficiency Level   | USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782 |
| Ingress Protection |   |
| Size (mm)          | 49.2*47.0*27.5 +/-0.3   |

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## ENCLOSURE



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## RATING TABLE

| Model Number          | Voltage | Amps(A) | Watts(W) | RFQ                 |
|-----------------------|---------|---------|----------|---------------------|
| GT-83083-0505-USB-W2U | 5 V     | 1       | 5.00     | <a href="#">RFQ</a> |

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May 20, 2024

## 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% measured at the output connector measured at the end of a 0.6 meter USB cordset employing #22 Gauge conductors
04. Line Voltage Regulation: +/- 1% typical measured at the output connector measured at the end of a 0.6 meter USB cordset employing #22 Gauge conductors
05. Output Ripple (Vp-p): +/-1% or 100 mV whichever is greater measured at the end of a 0.6 meter USB cordset employing #22 Gauge conductors. Measured at 20 MHz bandwidth with 0.1 uf ceramic capacitor in parallel with 10 uf electrolytic capacitor connected at the end of the output connector.
06. Inrush Current: at full load, 25°C, cold start
07. Switching Frequency: 100 KHz typical, varies with line and load
08. Efficiency: 73.77% minimum at nominal input voltage average, Efficiency meet CEC V, ERP : 2009/125/EC

### B) PROTECTION

01. Over-current protection: 1.5A maximum with auto-recovery function
02. Over-voltage protection: 10VDC maximum with zener clamp
03. Short-circuit protection: The adapter shall not be damaged by short the DC output to Ground.

### C) SAFETY

01. Dielectric Withstand Voltage: Primary To Secondary: 3000VAC 10mA 1minute or 4242VDC 10mA 1minute
02. Leakage Current: 20uA maximum, at nominal AC input voltage and frequency
03. ESD Immunity per EN61000-4-2, ±8 kV contact, ±15 kV air, Perf Criteria A Standard.

### D) OTHER:

01. MTBF: 200,000 Hours @ 25°C ambient temperature
02. Operating Temperature: 0°C to 50°C ambient temperature
03. Operating Humidity: 20 ~ 85 % RH. non-condensing
05. Storage Temperature: -20°C to 60°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

### 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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May 20, 2024

## DERATING CURVE

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May 20, 2024

**INPUT CONFIGURATION**

| Description | UK BS 1363 configuration: UK 2 Blades Class I |
|-------------|---|
|-------------|---|

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May 20, 2024

## 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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May 20, 2024



## Approvals

| Logo   | Description   |
|--|---|
|                     | Attention Mark / Refer to operating manual for operating and service instructions   |
| No Logo Applicable   | CB report 60950-1 2nd Ed  |
|                     | CE Certification  |
|                     | 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> |
|                   |   |
|                   | 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  |
| 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>   |
| <br>IEC/EN60950-1 | SIQ Mark License EN60950-1  |
|                   | UKCA Certification  |

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May 20, 2024

|   |   |
|---|---|
|  | UKCA Certification  |
|  | 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 |