


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

Model:GT-81090-06VV-x.x-W2E-USB

April 15, 2021

## GT-81090-06VV-x.x-W2E-USB

### Information

|                               |  |
|-------------------------------|--|
| Model Number                  | GT-81090-06VV-x.x-W2E-USB  |
| Description                   | GT-81090-06VV-x.x-W2E-USB, ICT/ITE Power Supply, Wall Plug-in, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, , Output Rating: 6 Watts, Power rating with convection cooling (W) , 5V in 0.1V increments, Approvals: |
| Model Picture                 |   |
| Agency Documents              | <a href="http://www.globtek.info/certs/GT-81090-W2Z-USB/">http://www.globtek.info/certs/GT-81090-W2Z-USB/</a>  |
| CE EC-Declaration             | <a href="https://www.globtek.com/pdf/ec_declaration/a0O3000000A1YnwEAF">https://www.globtek.com/pdf/ec_declaration/a0O3000000A1YnwEAF</a>  |
| RoHS/RoHS2 Declaration        | <a href="https://www.globtek.com/pdf/rohs_cert/a0O3000000A1YnwEAF">https://www.globtek.com/pdf/rohs_cert/a0O3000000A1YnwEAF</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~, 50-60 Hz                                |
| I/P Amps (A)       |  |
| Wattage (W)        | 6.0  |
| Vout Range (V)     | 5  |
| Efficiency Level   | V  |
| Ingress Protection |  |
| Size (mm)          | 66*41*25   |

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**ENCLOSURE**

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## RATING TABLE

| Model Number               | Voltage | Amps(A) | Watts(W) | RFQ                 |
|----------------------------|---------|---------|----------|---------------------|
| GT-81090-067.5-2.5-W2E-USB | 5 V     | 1       | 5.00     | <a href="#">RFQ</a> |
| GT-81090-067.5-1.5-W2E-USB | 6 V     | 0.83    | 4.98     | <a href="#">RFQ</a> |
| GT-81090-0612-3.0-W2E-USB  | 9 V     | 0.66    | 5.94     | <a href="#">RFQ</a> |
| GT-81090-0612-W2E-USB      | 12 V    | 0.5     | 6.00     | <a href="#">RFQ</a> |

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## SPECIFICATIONS

### A) ELECTRICAL SPECIFICATIONS:

01. Input Voltage: 100-240 Vac
02. Input Current: 0.6 A RMS max
03. Input Frequency: 47 - 63 Hz
04. Output Regulation: +/- 5% measured at the output connector
05. Line Voltage Regulation: +/- 1% typical measured at full load
06. Output Ripple (Vp-p): +/-1% or 150 mV whichever is greater, 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 at nominal line
07. Turn-ON/OFF Overshoot: 5% maximum, 1 mS typical recovery time for 25% to 50% step load
08. Turn-ON Delay: 3000 mS, maximum @ full load, nominal line
09. Hold-Up Time: 8 mS typical @ nominal input voltage and full load
10. Inrush Current: 30A maximum cold start @ 240Vac input
11. Switching Frequency: 65 KHz typical

### B) PROTECTION

01. Over-Voltage: Electronically Protected Zener clamp across the output
02. Short Circuit: Electronically Protected unit will auto recover upon removal of fault
03. Input Protection: Input line fusing

### C) SAFETY

01. Dielectric Withstand Voltage: 4242Vdc from primary to secondary
02. Earth Leakage Current: <0.25 mA at 240Vac input voltage
03. ROHS: Complies with EU 2002/95/EC and China SO/T 11363-2006

### 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: Convection

### E) ENCLOSURE

01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
02. Size: 43.5 x 74.0 x 35.3 mm +/-1.0 mm
03. Markings: Label and/or Pad Printed and/or Molded in the case

#### PROPRIETARY INFORMATION

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<https://en.globtek.com/datasheet/id/a003000000A1Ynw>

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## DERATING CURVE

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**INPUT CONFIGURATION**

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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

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| Logo |  |
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