

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

Model:GTM46360-2505-USB2A-Q

May 9, 2025

## GTM46360-2505-USB2A-Q

### Information

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Number                  | GTM46360-2505-USB2A-Q                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Description                   | GTM46360-2505-USB2A-Q, Medical Power Supply, Wall Plug-in, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, Blade Options for Q Series Wall Plug-in Power Supplies, Output Rating: 25 Watts, Power rating with convection cooling (W) , 5V in 0.1V increments, Approvals: UKCA; LPS 62368; PSE; CAN ICES-3; RCM (pending); China RoHS; Level VI; CB 60601-1 (pending); RoHS; Ukraine; VCCI; WEEE; Double Insulation; CCC (pending); FCC; cETLus 60601-1 3rd (pending); EAC; 230V CoC Tier 2; CB 60950 (pending); CB 62368; Morocco;cco; |
| Model Picture                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Agency Documents              | <a href="http://www.globtek.info/certs/GTM46360/">http://www.globtek.info/certs/GTM46360/</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| CE EC-Declaration             | <a href="https://www.globtek.com/pdf/ec_declaration/a0O3a00000M3ytbEAB">https://www.globtek.com/pdf/ec_declaration/a0O3a00000M3ytbEAB</a>                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| RoHS/RoHS2 Declaration        | <a href="https://www.globtek.com/pdf/rohs_cert/a0O3a00000M3ytbEAB">https://www.globtek.com/pdf/rohs_cert/a0O3a00000M3ytbEAB</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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May 9, 2025

**MODEL PARAMETERS**

|                    |                                                                     |
|--------------------|---------------------------------------------------------------------|
| Type               | Wall Plug-in                                                        |
| Technology         | Regulated Switchmode AC-DC Power Supply AC Adaptor                  |
| Category           | Medical Power Supply                                                |
| Input Voltage      | 100-240V~, 50-60 Hz                                                 |
| I/P Amps (A)       | 0.75A                                                               |
| Wattage (W)        | 25.0                                                                |
| Vout Range (V)     | 5                                                                   |
| Efficiency Level   | USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782 |
| Ingress Protection | Indoor Use                                                          |
| Size (mm)          | 41.0 x 70.0 x 35.1                                                  |

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<https://www.globtek.com/ds/Ji5bGVe2T3F/mqayDw7WKtz.html#datasheet>

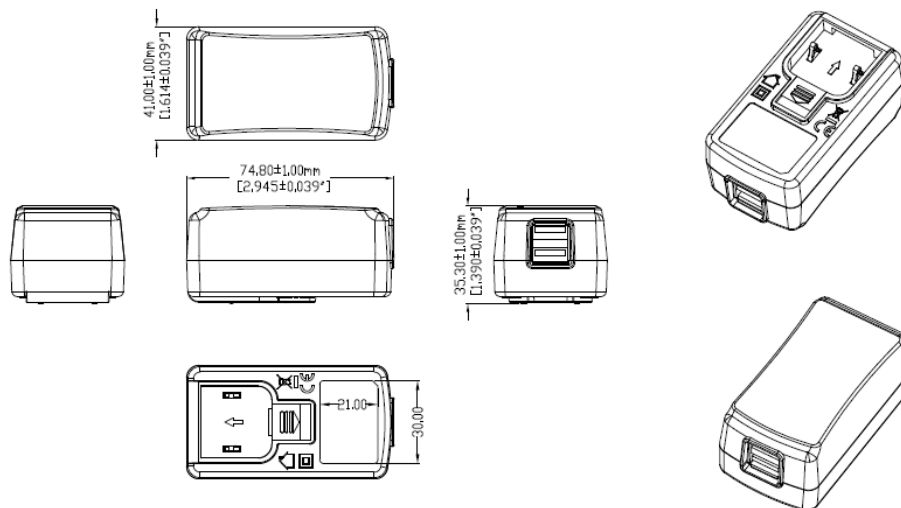
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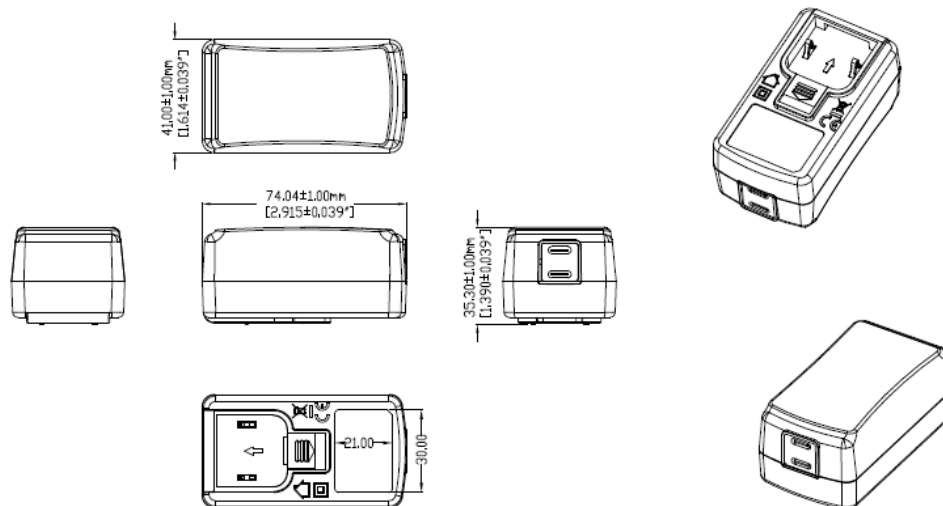
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## ENCLOSURE

Enclosure for units with 2 USBA connectors. Part #s are WRxxxxxxxUSB2A



Enclosure for units with 2 USBC connectors. Part #s are WRxxxxxxxUSB2C

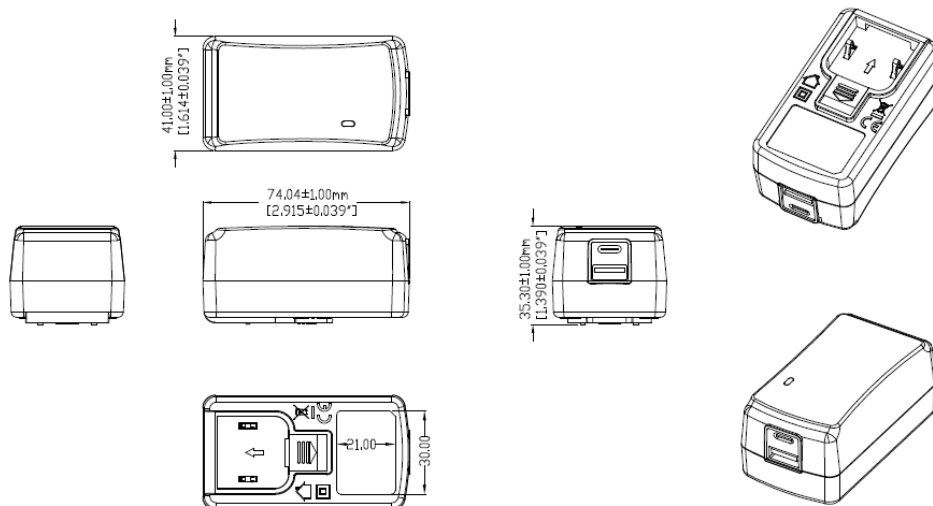


Enclosure for units with 1 USBA and 1 USBC connectors. Part #s are WRxxxxxxxUSB1A1C

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May 9, 2025



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May 9, 2025

## RATING TABLE

| Model Number        | Voltage | Amps(A) | Watts(W) | RFQ                 |
|---------------------|---------|---------|----------|---------------------|
| GTM46360-2505-USB2A | 5.0 V   | 5       | 25.00    | <a href="#">RFQ</a> |
| GTM46360-2505-USB2C | 5.0 V   | 5       | 25.00    | <a href="#">RFQ</a> |

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Model:GTM46360-2505-USB2A-Q

May 9, 2025

## SPECIFICATIONS

### Input

|                      |                                                                                                                              |
|----------------------|------------------------------------------------------------------------------------------------------------------------------|
| Input Voltage:       | Specified: 90-264VAC, Nameplate: 100-240VAC<br>100% rated load current for 90-264VAC<br>85% rated load current for 85-264VAC |
| Input Frequency:     | Specified: 47-63Hz, Nameplate: 50-60Hz                                                                                       |
| No Load Input Power: | < 75mW @ 230VAC (EU CoC Tier 2 compliant)                                                                                    |
| Inrush Current:      | < 30A @ 115VAC, < 60A @ 230VAC (cold start)                                                                                  |
| Efficiency:          | DoE Efficiency Level VI and CoC Tier 2 compliant (tested according to DoE 10 CFR Part 430, Subpart B, Appendix Z)            |

### Output

|                     |                                                                                                                     |
|---------------------|---------------------------------------------------------------------------------------------------------------------|
| Turn-on Delay:      | < 1 second @ 115VAC and full load                                                                                   |
| Output Regulation   | ± 4% max. (measured at the end of a 1m long output cord)                                                            |
| Line Regulation:    | ± 1% typ. (measured at the end of a 1m long output cord)                                                            |
| Ripple:             | 75mV max. (using a 47µF low-ESR electrolytic cap + 0.1µF ceramic cap, measured @ 20MHz BW, at the output connector) |
| Transient Response: | 5% max. deviation, 1ms max. recovery time (with 25% load step),                                                     |
| Hold-up Time:       | 8ms min. (100VAC and full load)                                                                                     |
| Power Indicator:    | Green LED                                                                                                           |

### Protections

|                           |                                             |
|---------------------------|---------------------------------------------|
| Input Protection:         | MOV transient suppressor, input line fusing |
| Over-Voltage Protection:  | 110-130%, Latched off, cycle AC to reset    |
| Over-Current Protection:  | 110-160%, Auto-recovery                     |
| Short-Circuit Protection: | Auto-recovery                               |

### Environmental

|                        |                                                                       |
|------------------------|-----------------------------------------------------------------------|
| MTBF:                  | 1,000,000 hours @ 40°C ambient, full load (Telcordia SR-332, Issue 3) |
| Operating Temperature: | -10°C to 40°C (full load)                                             |
| Storage Temperature:   | -40°C to 80°C                                                         |
| Humidity:              | 0% to 95% relative humidity, non-condensing                           |
| Altitude               | 5000m                                                                 |
| Cooling:               | Convection                                                            |
| RoHS:                  | Complies with EU 2011/65/EU and China SJ/T 11363-2006                 |

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Model:GTM46360-2505-USB2A-Q

May 9, 2025

## Safety

|                               |                                                           |
|-------------------------------|-----------------------------------------------------------|
| Dielectric Withstand Voltage: | 4000VAC or 5656VDC from input to output<br>10mA, 1 minute |
| Touch Current:                | NC: 80µA max.<br>SFC: 400µA max.                          |
| Earth Leakage Current         | N/A for 2-conductor input models                          |
| Means of Protection:          | 2 x MOPP                                                  |
| Output Isolation:             | Class II (2-conductor)                                    |

## EMC

|                                          |                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicable Standards:                    | Medical: EN 60601-1-2, 4th edition<br>Emissions: EN55032, EN61000-6-3, EN61000-6-4<br>Immunity: EN55024, EN61000-6-1, EN61000-6-2                                                                                                                                                                                                                                |
| Conducted Emissions:                     | Class B, FCC Part 15, Class B (with resistive load)                                                                                                                                                                                                                                                                                                              |
| Radiated Emissions:                      | Class B, FCC Part 15, Class B (with resistive load)                                                                                                                                                                                                                                                                                                              |
| Harmonic Current Voltage Distortion:     | EN61000-3-2, Class A                                                                                                                                                                                                                                                                                                                                             |
| Voltage Fluctuations/Flicker:            | EN61000-3-3                                                                                                                                                                                                                                                                                                                                                      |
| Electrostatic Discharge (ESD) Immunity:  | EN61000-4-2, 10KV contact discharge, 18KV air discharge, Criterion A                                                                                                                                                                                                                                                                                             |
| Radiated RF Immunity:                    | EN61000-4-3, 10V/m @ 80-1000MHz, 3V/m @ 1-2.7GHz, 80% 1KHz AM, Criterion A                                                                                                                                                                                                                                                                                       |
| EFT/Burst Immunity:                      | EN61000-4-4, 2KV/100KHz., Criterion A                                                                                                                                                                                                                                                                                                                            |
| Line Surge Immunity:                     | EN61000-4-5, 1KV differential, 2KV common-mode, Criterion A                                                                                                                                                                                                                                                                                                      |
| Conducted RF Immunity:                   | EN61000-4-6, 3VRMS, 80% 1KHz AM, Criterion A                                                                                                                                                                                                                                                                                                                     |
| Power Frequency Magnetic Field Immunity: | EN61000-4-8, 30A/m, Criterion A                                                                                                                                                                                                                                                                                                                                  |
| Voltage Dip Immunity:                    | EN61000-4-11, Criterion B/C                                                                                                                                                                                                                                                                                                                                      |
| Note 1:                                  | When a Class II power supply is connected to an earth-referenced system, conducted/radiated EMI levels tend to increase since the distant earth connection creates a long return path for common-mode currents. This model includes an output common-mode choke to help alleviate system-level EMI issues. This choke can be removed, if low cost is a priority. |

## Enclosure

|           |                                                     |
|-----------|-----------------------------------------------------|
| Housing:  | High impact plastic, 94V0 polycarbonate, non-vented |
| Markings: | Adhesive backed label or laser engraving            |

## Special Options

Non-standard - Contact GlobTek

1. Custom housing and output cord colors
2. Custom fixed output cord lengths
3. Custom markings and marking methods

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May 9, 2025

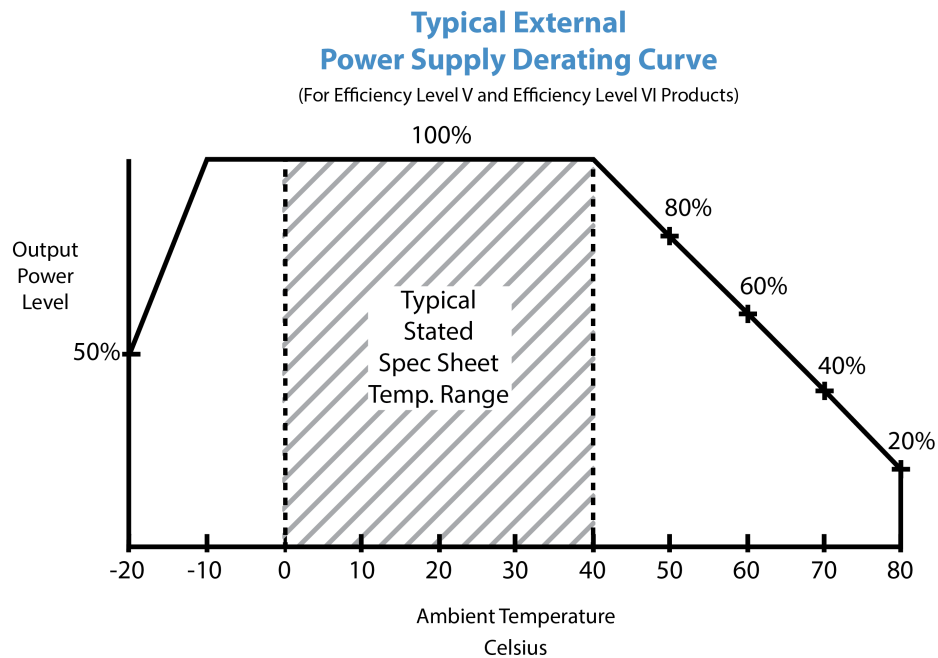
4. Reduced output ripple
  5. Improved output voltage set-point tolerance
-



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May 9, 2025

## DERATING CURVE



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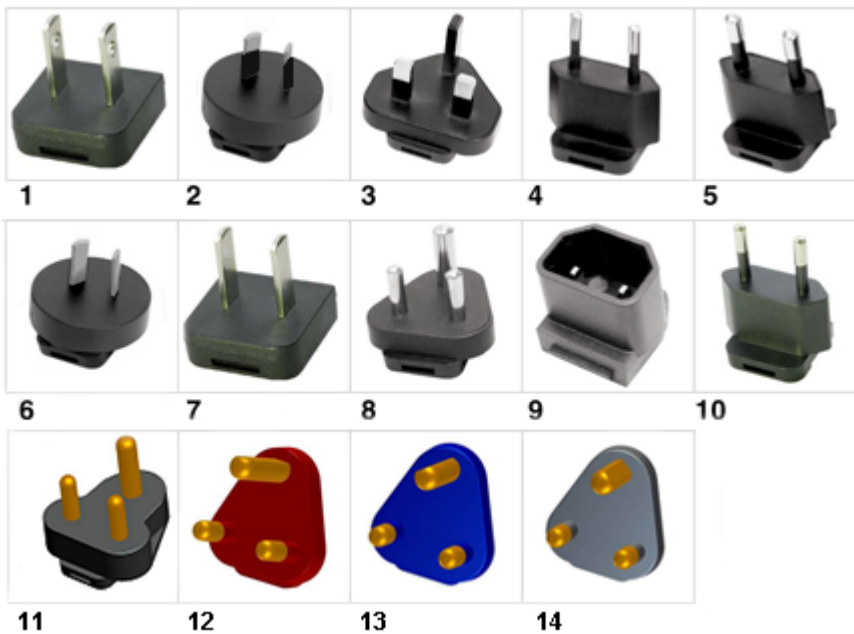
May 9, 2025

## INPUT CONFIGURATION

Description Blade Options for Q Series Wall Plug-in Power Supplies

Data Sheet: <http://en.globtek.com/interchangeable-blades.php>

Insertion Instructions: <http://www.globtek.com/pdf/Instructions-Interchangeable-Blades.pdf>

Video: [Q-Blade Style Instruction Video](#)


INPUT CONNECTOR: Q-Socket (below are available blades configurations which are "not included" (unless stated above); can be purchased separately, package with power supply or as a separate "Q-KIT" if specified

01. United States / Canada / Japan NEMA 1-15P/ IEC PLUG Type A [WORKS IN PLUG B] configuration: NA 2 blades, Class II; US/CA/JP P/N: Q-NA(R)
02. Australian AS 3112 configuration: SAA 2 blade/ IEC TYPE I, Class II; AU P/N: Q-SAA(R)
03. UK BS 1363 configuration: UK 3 blade with dummy Ground/ IEC TYPE G, Class II; GB P/N: Q-UK(R)
04. European CEE 7/16 configuration: Europlug 2 pins/ IEC TYPE C [WORKS IN TYPE E&F], Class II; EU P/N: Q-EU(R)
05. Korean KS C8305 configuration: 2 pins/SIMILAR TO IEC TYPE C, Class II; KR P/N: Q-KR(R)
06. Argentina IRAM 2073 configuration: 2 blades/SIMILAR TO IEC TYPE I; AR P/N: Class II Q-AR(R)
07. China GB 2099 configuration: 2 blades/SIMILAR TO TYPE A, Class II; CN P/N: Q-CN(R)
08. India IS 1293 6A/BS546 configuration: 5A, 3 pins with Dummy Ground, Class II/IEC TYPE D; IN P/N: Q-IN(R)
09. IEC60320/C18 Inlet, Class II; P/N: Q-C18(R)
10. Brazilian NBR6147 configuration: 2 pins, Class II;SIMILAR TO IEC TYPE C BR P/N: Q-BR(R)
11. South Africa SABS164-1 and India IS 1293, IS694, 16A type plug, 3 round prongs, Class II + dummy ground, IEC TYPE M P/N: Q-SANS164-1-16A(R)
12. South Africa SABS164-4, 3 round prongs with a notched prong @ 0°, Class II + dummy ground, IEC TYPE M Red, P/N: Q-SANS164-4C-16A(R)

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Model:GTM46360-2505-USB2A-Q

May 9, 2025

13. South Africa SABS164-4, 3 round prongs with a notched prong @ -53°, Class II + dummy ground, Blue, IEC TYPE M,  
P/N:

Q-SANS164-4L-16A(R)

14. South Africa SABS164-4, 3 round prongs with a notched prong @ +53°, Class II + dummy ground, Black, IEC TYPE M  
P/N:

Q-SANS164-4R-16A(R)

#### Kits

01. Q-KIT: 1,2,3,4 above

02. Q-KIT-INTL: 2,3,4 above

03. Q-KIT-6: 1,2,3,4,5,6 above

04. Q-KIT-7: 1,2,3,4,5,6,7 above

05. Q-KIT-8: 1,2,3,4,5,6,7,8 above

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May 9, 2025

## 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 9, 2025

## Approvals

| Logo                                                                                                                                                                                                                                                                                                                                                               | Description                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| No Logo Applicable                                                                                                                                                                                                                                                                                                                                                 | EU 230V CoC Tier 2, 278/2009, Mar 2014                                                                                                            |
| No Logo Applicable                                                                                                                                                                                                                                                                                                                                                 | IEC 60601-1:2005 (Third Edition) + CORR. 1 (2012 reprint) (Ed 3.1) for GTM96180 only (pe                                                          |
| No Logo Applicable                                                                                                                                                                                                                                                                                                                                                 | CB for IEC 60950-1:2005 (Second Edition) + A                                                                                                      |
| No Logo Applicable                                                                                                                                                                                                                                                                                                                                                 | CB for IEC 62368-1:2014 (Second Edition)                                                                                                          |
|                                                                                                                                                                                                                                                                                  | CCC to GB4943. 1-2011; GB9254-2008; GB1                                                                                                           |
|                                                                                                                                                                                                                                                                                 | CHINA SJ/T 11364-2014, China RoHS Chart:<br><a href="http://www.globtek.com/pdf/F-GT-DJD-8.4.1-0">http://www.globtek.com/pdf/F-GT-DJD-8.4.1-0</a> |
| <p>Approved MET Mark:</p> <div>  <p>Comply with<br/> <b>ANSI AAMI ES 60601-1</b><br/> <b>IEC 60601-1-6</b><br/> <b>ANS AAMI HA 60601-1-11</b><br/> <b>CAN/CSA-C22.2 NO. 60601-1</b><br/> <b>CAN/CSA-C22.2 NO. 60601-1-6</b><br/> <b>CAN/CSA-C22.2 NO. 60601-1-11</b></p> </div> |                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                 |                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                 | Declaration ДС № EAЭС N RU Д-US.KA01.B.<br>Kazakhstan <a href="http://www.globtek.com/redirect/">http://www.globtek.com/redirect/</a>             |

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Model:GTM46360-2505-USB2A-Q

May 9, 2025

|                                                                                                    |                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | Compliance of this power supply with FCC Part 15 Class B output load. The FCC law stipulates that systems must comply with the FCC emission limits with the actual system.     |
| CAN ICES-3(B)/NMB-3(B)                                                                             | Compliance of this PSU with Industry Canada. The ICES law stipulates that system-level test results must comply with the ICES-3 emission limits with the actual system.        |
|                   | Indoor Use Only - Mark is on the label or Molded into the housing.                                                                                                             |
| <br>GlobTek, Inc. | JAPAN TUV R-PSE, Cert. No. JD 50471561.p, [15V~30V]. Please reference the following website: <a href="https://www.globtek.com/r2/Szj4Vb">https://www.globtek.com/r2/Szj4Vb</a> |
| EFFICIENCY LEVEL  | Efficiency: complies to section 301 of Energy Star. Energy Star tier 2 (North America), ECP tier 2 (Europe)                                                                    |
| LPS                                                                                                | Limited Power Source 62368                                                                                                                                                     |
|                 | Morocco SDoC declaration<br><a href="http://www.globtek.info/certs/Morocco%20SDoc">http://www.globtek.info/certs/Morocco%20SDoc</a>                                            |
|                 | Australia and New Zealand Regulatory Compliance<br><a href="http://rcm.standards.org.au/rcmfaq/rcmfaq.htm">http://rcm.standards.org.au/rcmfaq/rcmfaq.htm</a>                   |
| RoHS                                                                                               | Specifications of directive 2011/65/EU Annex V<br><a href="http://www.ce-mark.com/Rohs%20final.pdf">http://www.ce-mark.com/Rohs%20final.pdf</a>                                |
|                 | UKCA Certification                                                                                                                                                             |
| <br>10276       | Ukraine UKRSePro (Document: <a href="http://www.globtek.com/iso-certificates.php">www.globtek.com/iso-certificates.php</a> )                                                   |

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May 9, 2025

|                                                                                   |                                                                                                                   |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
|  | Japan: Voluntary Control Council for Interferen                                                                   |
|  | WEEE: Complies with EU 2012/19/EU ( <a href="http://e">http://e</a><br>Mark is on the label or Molded in the case |