

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

Model:GTM46360-2505-USB2A-Q

October 2, 2022

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 (pending); Morocco; |
| Model Picture | |
| Agency Documents | |
| CE EC-Declaration | https://www.globtek.com/pdf/ec_declaration/a003a00000M3ytbEAB |
| RoHS/RoHS2 Declaration | https://www.globtek.com/pdf/rohs_cert/a003a00000M3ytbEAB |
| REACH Declaration | https://www.globtek.com/pdf/iso_certificates/REACH.pdf |
| Conflict Minerals Declaration | https://www.globtek.com/pdf/conflict-minerals.pdf |

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Model:GTM46360-2505-USB2A-Q

October 2, 2022

MODEL PARAMETERS

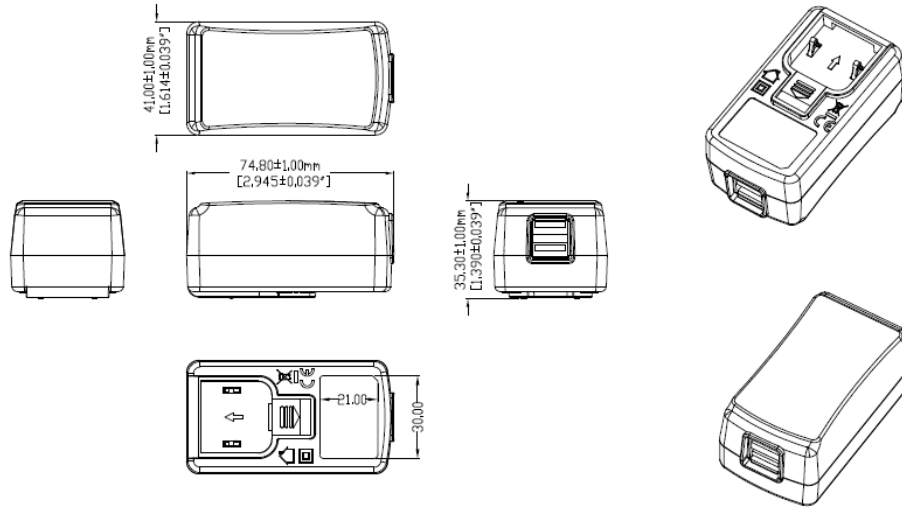
| | |
|--------------------|---|
| Type | Wall Plug-in |
| Technology | Regulated Switchmode AC-DC Power Supply AC Adaptor |
| Category | Medical Power Supply |
| Input Voltage | 100-240V~, 50-60 Hz |
| I/P Amps (A) | 0.75A |
| Wattage (W) | 25.0 |
| Vout Range (V) | 5 |
| Efficiency Level | USA DOE 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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October 2, 2022

ENCLOSURE



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October 2, 2022

RATING TABLE

| Model Number | Voltage | Amps(A) | Watts(W) | RFQ |
|---------------------|---------|---------|----------|---------------------|
| GTM46360-2505-USB2A | 5.0 V | 5 | 25.00 | RFQ |

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October 2, 2022

SPECIFICATIONS

Input

| | |
|----------------------|--|
| Input Voltage: | Specified: 90-264VAC, Nameplate: 100-240VAC 100% rated load current for 90-264VAC 85% rated load current for 85-264VAC 100% rated load current for 110-370VDC |
| 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) |

Protections

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

October 2, 2022

Safety

| | |
|-------------------------------|---|
| Dielectric Withstand Voltage: | 4000VAC or 5656VDC from input to output 10mA, 1 minute |
| Touch Current: | NC: 80µA max. 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 Emissions: EN55032, EN61000-6-3, EN61000-6-4 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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Model:GTM46360-2505-USB2A-Q

October 2, 2022

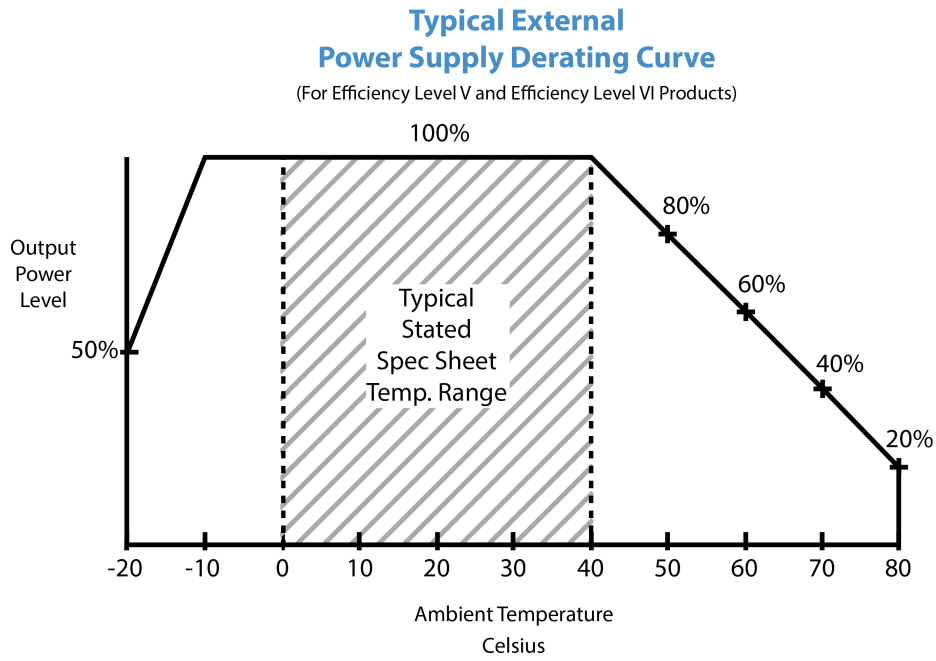
4. Reduced output ripple
 5. Improved output voltage set-point tolerance
-

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Model:GTM46360-2505-USB2A-Q

October 2, 2022

DERATING CURVE



Model:GTM46360-2505-USB2A-Q

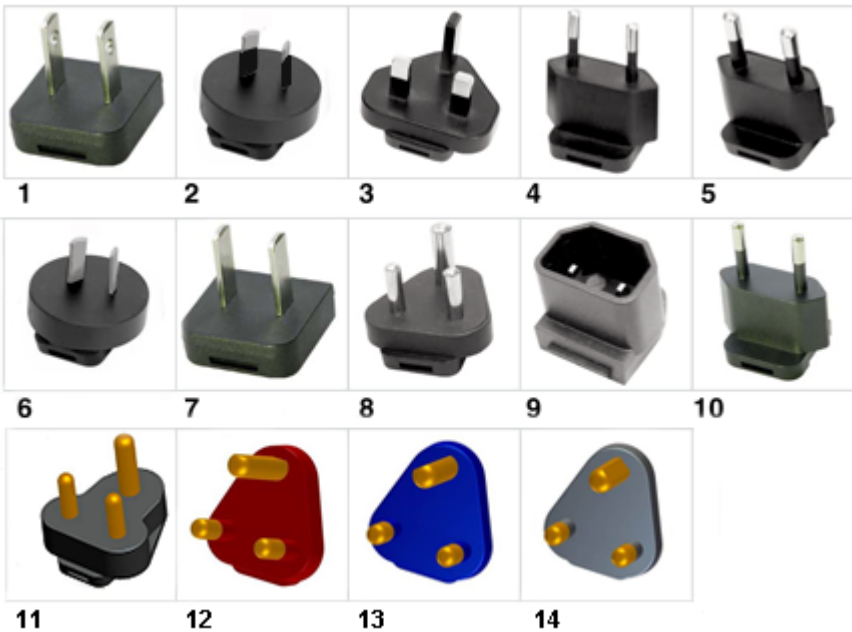
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INPUT CONFIGURATION

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

October 2, 2022

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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Model:GTM46360-2505-USB2A-Q

October 2, 2022

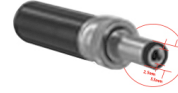
OUTPUT CONFIGURATION

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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October 2, 2022










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 (2006) + CORR. 2 (2007) + AM1 (2012) or IEC 60601-1 (2012 reprint) (Ed 3.1) for GTM96180 only (pending) |
| No Logo Applicable | CB for IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013 (pending) |
| No Logo Applicable | CB for IEC 62368-1:2014 (Second Edition) (pending) |
|  | CCC to GB4943. 1-2011; GB9254-2008; GB17625. 1-2012 with Tropical and Altitude up to 5000 m approval. (pending) |
|  | AAMI ES60601-1 Issued: 2012/08/20 Med Electrical Equipment - Part 1: CAN/CSA-C22.2 No.60601-1:14, 3rd Edition Issued: 2014/03/01 - Med Electrical Equipment - Part 1: IEC 60601-1-11 Ed. 2 Medical Elec. Equip.- Part 1-11:GTM96180 only (pending) |
|  | CHINA SJ/T 11364-2014, China RoHS Chart: http://en.globtek.com/globtek-rohs.php |
|  | |
|  | Declaration ДС № EAЭC N RU Д-US.KA01.B.10453_19 Custom Union of Russia, Belarus and Kazakhstan http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration |
|  | Compliance of this power supply with FCC Part 15, Class B has been demonstrated with a standard output load. The FCC law stipulates that system-level testing is required to demonstrate compliance with the FCC emission limits with the actual system load. |
| CAN ICES-3(B)/NMB-3(B) | Compliance of this PSU with Industry Canada, Class B demonstrated with a standard output load. The ICES law stipulates that system-level testing is required to |

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Model:GTM46360-2505-USB2A-Q

October 2, 2022

| | |
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| | demonstrate compliance with the ICES-3 emission limits with the actual system load. |
|  | Indoor Use Only - Mark is on the label or Molded in the case |
|  GlobTek, Inc. | JAPAN TUV R-PSE, Cert. No. JD 50471561.pdf, to J62368-1(H30) , J55032(H29), J3000(H25) ,[15V?30V]. Please reference the following website for PSE regulations: http://en.globtek.com/importing-ite-and-medical-power-supplies-ac-adaptors-to-japan/ |
| 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 62368 |
|  | Morocco SDoC declaration http://www.globtek.info/certs/Morocco%20SDoC%20Declaration/ |
|  | Australia and New Zealand Regulatory Compliance, Mark (http://rcm.standards.org.au/rcmfaq/rcmfaq.htm (pending) |
| RoHS | Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863-EU (ROHS-3) http://www.ce-mark.com/Rohs%20final.pdf |
|  | UKCA Certification |
|  10276 | Ukraine UKRSepr (Document: www.globtek.com/html/iso_certificates/GT_Ukraine.pdf |
|  | Japan: Voluntary Control Council for Interference (VCCI) |
|  | WEEE: Complies with EU 2012/19/EU (http://ec.europa.eu/environment/waste/weee/index_en.htm) Mark is on the label or Molded in the case |

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