

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

Model:GT-46120-12VV-x.x-Q

September 13, 2017

DOE EPS 2.0 Level VI Power Supply / Charger / AC Adapter, 12W, Available with 5-24VDC output Certified to Medical and ITE Standards

Information

Model Number GT-46120-12VV-x.x-Q

Description GT-46120-12VV-x.x-Q, ITE Power Supply, Wall Plug-in, Regulated Switchmode AC-DC, , Input Rating: 100-240V~, 50-60 Hz, Blade Options for Q Series Wall Plug-in Power Supplies, Output Rating: 12 Watts, 5-48V in 0.1V increments, Approvals: CE China RoHS Double Insulation Level VI PSE RoHS 2 Ukraine VCCI WEEE

Model Picture



Agency Documents
CE <http://www.globtek.info/certs/GT-46120-WVVV/>
EC-Declaration http://www.globtek.com/pdf/ec_declaration/a0Oa000000Nrw14EAB
RoHS/RoHS2 Declaration http://www.globtek.com/pdf/rohs_cert/a0Oa000000Nrw14EAB
REACH Declaration http://www.globtek.com/pdf/iso_certificates/REACH.pdf
Conflict Minerals Declaration <http://www.globtek.com/pdf/conflict-minerals.pdf>

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Model Parameters

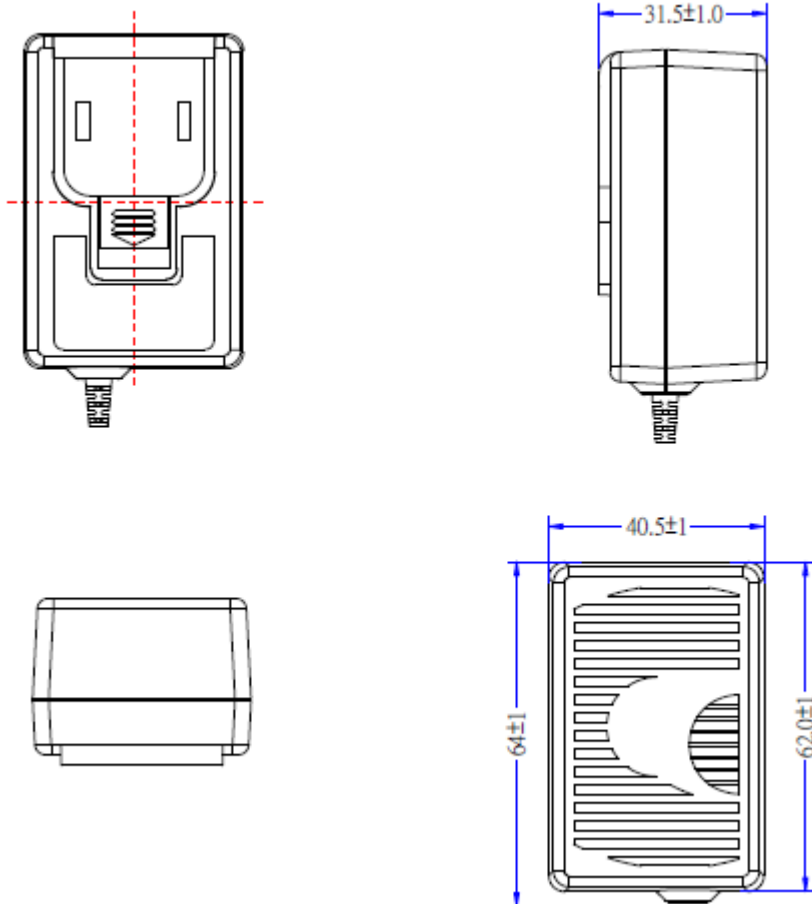
Type	Wall Plug-in
Technology	Regulated Switchmode AC-DC
Category	ITE Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	0.6A
Wattage (W)	12.0
Vout Range (V)	5-48
Efficiency	VI
Ingress Protection	IP52
Size (mm)	64.0*40.5*31.5

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ENCLOSURE



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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GT-46120-1005	5 V	2	10.00	RFQ
GT-46120-1206-0.055	9.5 V	2	11.90	RFQ
GT-46120-1212-4.5	7.5 V	1.33	9.98	RFQ
GT-46120-1212-3.0	9 V	1.33	11.97	RFQ
GT-46120-1212	12 V	1	12.00	RFQ
GT-46120-1215	15 V	0.8	12.00	RFQ
GT-46120-1224-9.0	15 V	0.8	12.00	RFQ
GT-46120-1224	24 V	0.5	12.00	RFQ
GT-46120-1248	48 V	0.25	12.00	RFQ

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SPECIFICATIONS

A) ELECTRICAL 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
04. Line Voltage Regulation: +/- 1% typical measured at the output connector
05. 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
06. Turn-ON/OFF Overshoot: 5% maximum, 1 mS typical recovery time for 25% step load
07. Turn-ON Delay: 1 Sec, typical
08. Hold-Up Time: 8 mS typical at nominal input voltage and full load
09. Inrush Current: 30A typical at 115VAC input ; 60A typical at 230VAC input
10. Switching Frequency: 65 KHz typical

B) PROTECTION

01. Over-Voltage: Protected Zener clamp across the output
02. Short Circuit: 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. Touch Current: <0.25mA @ 240Vac input voltage

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: 64.0*40.5*31.5 +/-1.0 mm
03. Markings: Label and/or Pad Printed and/or Molded in the case

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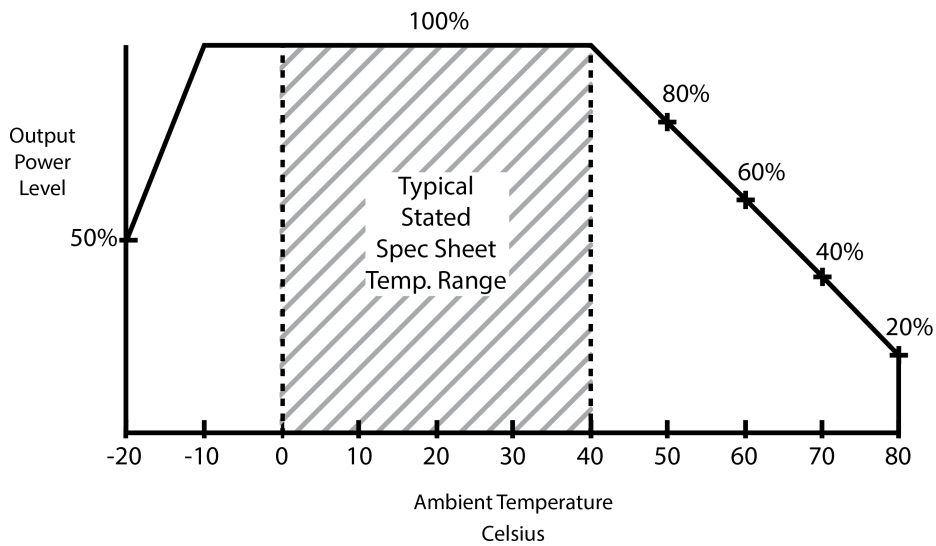
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DERATING CURVE

Typical External Power Supply Derating Curve

(For Efficiency Level V and Efficiency Level VI Products)



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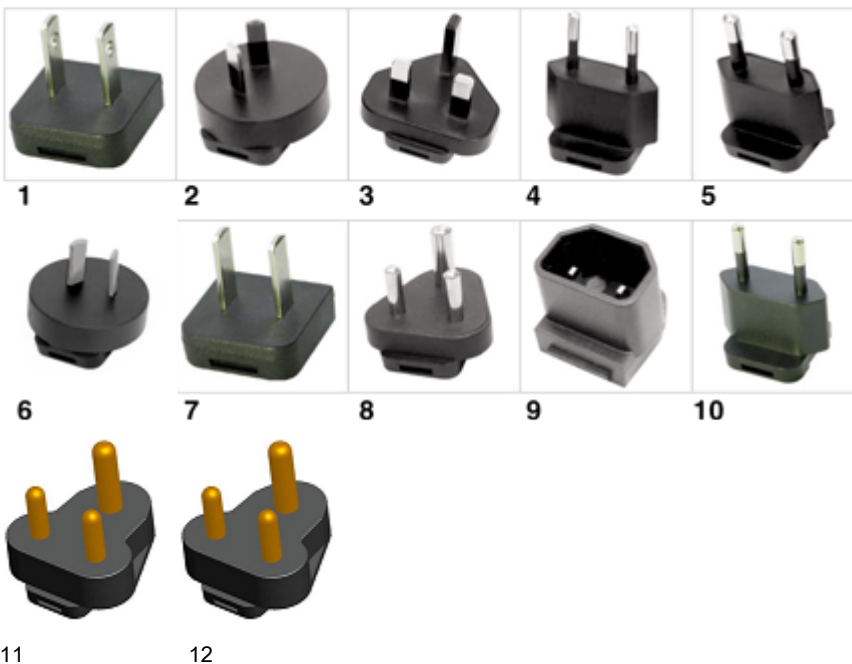
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Input Configuration

DescriptionBlade 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 configuration: NA 2 blades, Class II; US/CA/JP P/N: Q-NA(R)
02. Australian AS 3112 configuration: SAA 2 blade, Class II; AU P/N: Q-SAA(R)
03. UK BS 1363 configuration: UK 3 blade with dummy Ground, Class II; GB P/N: Q-UK(R)
04. European CEE 7/16 configuration: Europlug 2 pins, Class II; EU P/N: Q-EU(R)
05. Korean KS C8305 configuration: 2 pins, Class II; KR P/N: Q-KR(R)
06. Argentina IRAM 2073 configuration: 2 blades; AR P/N: Class II Q-AR(R)
07. China GB 2099 configuration: 2 blades, Class II; CN P/N: Q-CN(R)
08. India IS 1293 6A/SANS 164-3/BS546 configuration: 5A, 3 pins with Dummy Ground, Class II; IN P/N: Q-IN(R)
09. IEC320/C18 Inlet, Class II; P/N: Q-C18(R)
10. Brazilian NBR6147 configuration: 2 pins, Class II; BR P/N: Q-BR(R)
11. S. African SANS 164-1 configuration: 2 pins with Dummy Ground, Class II; SA P/N: Q-SANS164-1-16A(R)
12. Israel / Malaysia / Singapore British Standard BS 546-15A configuration: 2 pins with Dummy Ground, Class II; P/N: Q-BS546-15A(R)

Kits

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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

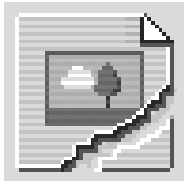
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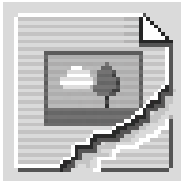
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Output Configuration

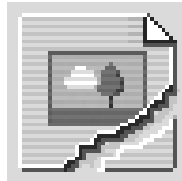
Common output connector options:



L Type (Coaxial
5.5x2.5mm plug)



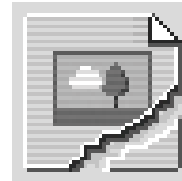
C Type (Coaxial
5.5x2.1mm plug)



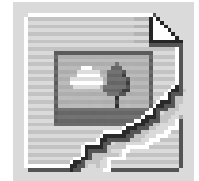
K Type (Coaxial
3.5x1.3mm plug)



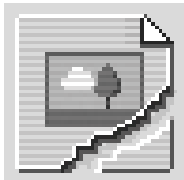
LL Type (5.5x2.5mm
Locking 760k type)



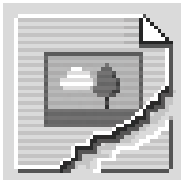
CL Type (5.5x2.1mm
Locking S761k type)



ML2 Type (Molex
housing 43025-0200)



YL3 Type (KPPX-3P)



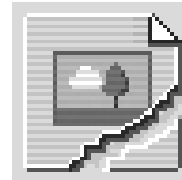
YL4 Type (KPPX-4P)



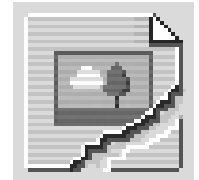
EJ1/2/3/4/5 (EIAJ
RC-5320A type
connectors)



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
	CE Certification
	CHINA SJ/T 11364-2014, China RoHS Chart: http://en.globtek.com/globtek-rohs.php
	Double Insulation - Mark is on the label or Molded in the 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)
 GlobTek, Inc.	JAPAN TUV Rheinland-PSE GlobTek Inc to J60950-1(H26) , J55022(H22),J3000(H25).Please follow the procedure listed in the following link for proper import to Japan: http://en.globtek.com/importing-to-japan.php .
RoHS 2	RoHS 2: Complies with EU 2011/65/EU and CHINA SJ/T 11363-2006 http://www.ce-mark.com/Rohs%20final.pdf
 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