

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

Model:GT-96250-25VV-R2

May 25, 2019

25W Ultra Low Leakage Current Class II Power Supply for Industrial and ITE Application

Information

Model Number GT-96250-25VV-R2
Description GT-96250-25VV-R2, Ultra low 50/60 Hz Leakage Current Sigma Wave Technology, Output Rating: 25 Watts, 5-48V in 0.1V increments.

Model Picture



Agency Documents

CE EC-Declaration https://www.globtek.com/pdf/ec_declaration/a0Oa000000FjsRCEAZ

RoHS/RoHS2 Declaration https://www.globtek.com/pdf/rohs_cert/a0Oa000000FjsRCEAZ

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 Parameters

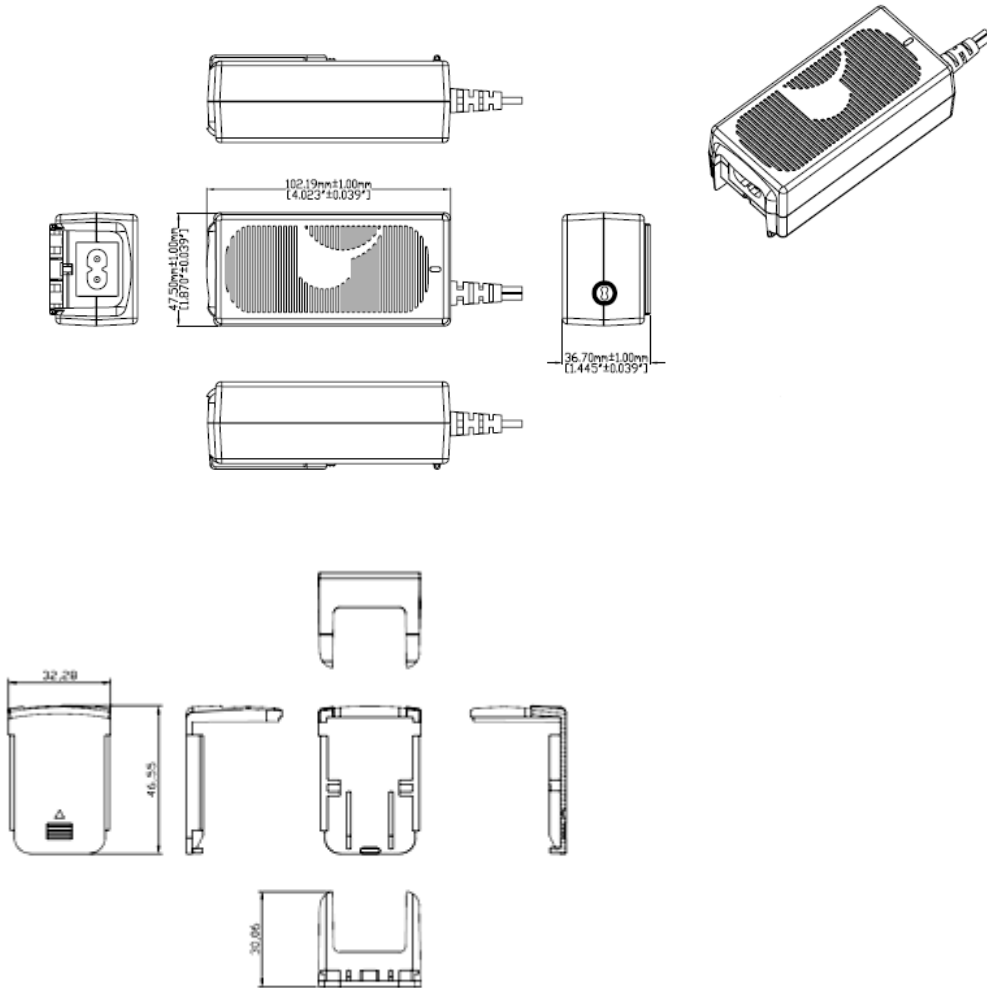
Type	Wall Plug-in+Desktop Combination
Technology	Sigma Wave Ultra Low Leakage Current, CF Compliant Power Supply AC Adaptor
Category	ITE Power Supply/Class 2 Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	1A
Wattage (W)	25.0
Vout Range (V)	5-48
Efficiency Level	VI
Ingress Protection	IP41, IP52 Option available
Size (mm)	(L)101.73x(W)46.47x(H)38.2mm

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ENCLOSURE



Units shipped without an installed input plug have a "desktop insert" installed.

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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GT-96250-2005-R25	V	4	20.00	RFQ
GT-96250-2011-R211	V	1.818	20.00	RFQ
GT-96250-2512-R212	V	2.083	25.00	RFQ
GT-96250-2524-R224	V	1.041	24.98	RFQ
GT-96250-2548-R248	V	0.521	25.01	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: +/- 0.5% typical measured at full load
05. Green Power On Indicator LED
06. Output Ripple (Vp-p): 1% or 100 mV whichever is greater, measured at 20 MHz bandwidth with 0.1 uf ceramic capacitor in parallel with a low impedance 47 uf electrolytic capacitor connected at the end of the output connector
07. Turn-ON/OFF Overshoot: 5% maximum, 1 mS typical recovery time for 40% to 70% step load
08. Turn-ON Delay: 1 second maximum @ full load, 100Vac input
09. Hold-Up Time: 8 mS typical @ 100Vac input voltage and full load
10. Inrush Current: 30A/60A maximum cold start @ 115/230Vac input
11. Efficiency: Compliant with Worldwide Level VI standards.
12. No Load Standby Power: 75 mW max

B) PROTECTION

01. Over-Voltage: 110% to 130% of nominal output voltage
02. Short Circuit: Electronically Protected unit will auto recover upon removal of fault
Output Current Limit: 110% to 160% of rated output
03. Input Protection: Input line fusing and 300Vac MOV

C) SAFETY

01. Dielectric Withstand Voltage: 4000Vac or 5656Vdc from input to output
02. Output Touch/Leakage Current: Class II models < 10uA
03. Compliant Standards: See listings at end of this drawing for specifics

D) EMCEN 60601-1-2, 4th edition

Emissions, per EN 55032, EN61000-6-3, EN61000-6-4

Conducted Emissions: Class B, FCC Part 15, Class B

Radiated Emissions: Class B, FCC Part 15, Class B

Line Frequency Harmonics EN61000-3-2, Class A

Voltage Fluctuations/Flicker EN61000-3-3

Immunity, per EN 55024, EN61000-6-1, EN61000-6-2

Static Discharge Immunity EN61000-4-2, 10kV Contact Discharge, 20kV air discharge

Radiated RF Immunity EN61000-4-3, 10V/m 80-1000MHz, 3V/m 1-2.7GHz, 80% 1KHz AM.

EFT/Burst Immunity EN61000-4-4, 4kV/25kHz.

Line Surge Immunity EN61000-4-5, 2kV differential, 4kV common-mode

Conducted RF Immunity EN61000-4-6, 3Vrms, 80% 1KHz AM

Power Frequency Magnetic Field Immunity EN61000-4-8, 3A/m

Voltage Dip Immunity EN61000-4-11, Criteria

E) OTHER:

01. MTBF: 300,000 Hours @ 25°C ambient temperature
02. Operating Temperature: 0°C to 40°C ambient temperature at full load, -10°C to 50°C ambient temperature with 80% load derating
03. Operating Humidity: 0% to 90% relative humidity
04. Storage Temperature: -10°C to 80°C
05. Operating Altitude: 5000 Meters

PROPRIETARY INFORMATION

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<http://en.globtek.com/datasheet/id/a00a000000FjsRC>

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06. ROHS 2: Complies with EU 2011/65/EU and China SJ/T 11363-2006

F) ENCLOSURE

- 01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
- 02. Markings: Label and/or Pad Printed and/or Molded in the case

G) SPECIAL OPTIONS

- 01. Cost reduction, removal of LED
- 02. Custom Cordsets, various cordage types, and connector types
- 03. Custom Markings
- 04. Short term Output Surge Capability
- 05. Custom Housing, with C18 Power Inlet
- 06. Tightened output voltage tolerance
- 07. Constant current battery charger characteristic
- 08. Reduced output power rating
- 08. High Rel PCB laminate with Plated through Holes for IPC610 Class 2 Compliance
- 09. Special Housing Colors and Cordset Colors

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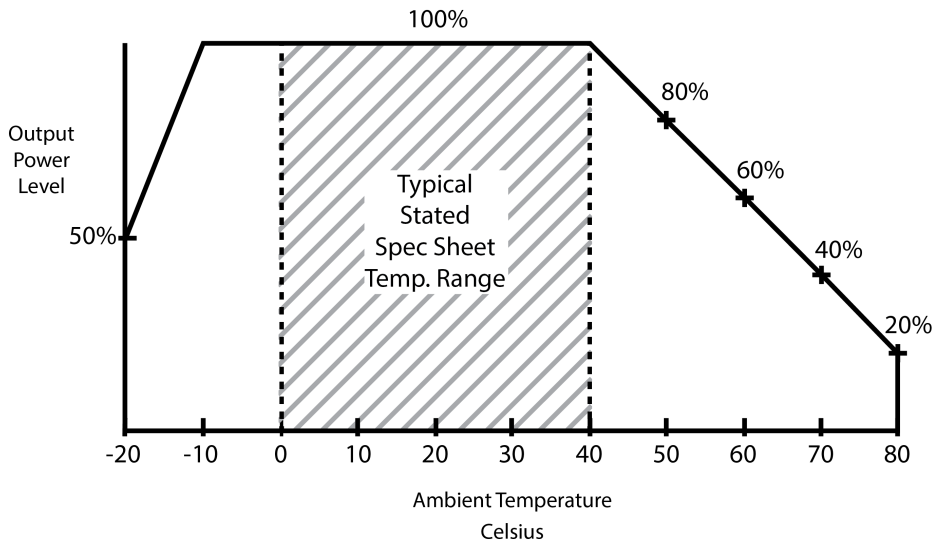
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DERATING CURVE

**Typical External
Power Supply Derating Curve**

(For Efficiency Level V and Efficiency Level VI Products)



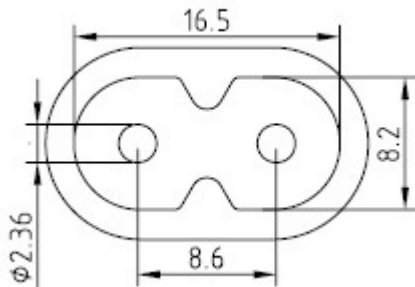
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Input Configuration

Description IEC 60320/C8 AC Inlet connector

[Blade Insertion Instructions](#)
[R-Blade Style Instruction Video](#)


Mates with IEC 60320/C8 Plug

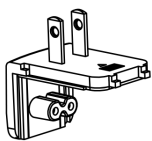
This series of Interchangeable Blade products may be used with Proprietary Interchangeable Blades as described below or with standard international power cords.

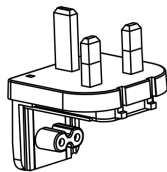
Optional INPUT BLADES: R-Socket: below are available blades configurations which are "not included" (unless stated above); may be purchased separately, packaged with power supply, or as a separate "R-KIT" if specified

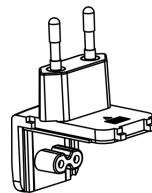
1. Class II model NEMA 1-15P AC power plug with 2 prongs, R-NA-2(R)
2. Australian AS 3112 configuration: SAA 2 pins Class II, R-SAA-2(R)
3. UK BS 1363 configuration: UK 2 pins (dummy Ground) Class II, R-UK-2(R)
4. European CEE 7/16 configuration: Europlug 2 PINS, Class II, R-EU-2(R)
5. China GB 2099 configuration: 2 blades, Class II; CN P/N:R-CN-2(R)
6. Desktop Insert

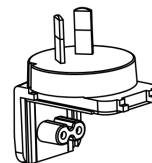
Kits

05. R-KIT: 1,2,3,4 above
06. R-KIT-INTL: 2,3,4 above


UL 2P

 P/N: R-NA-2(R)
 NORTH AMERICA
 JAPAN

UK 2P

 P/N: R-UK-2(R)
 UNITED KINGDOM
 HONG KONG
 SINGAPORE

EU 2P

 P/N: R-EU-2(R)
 EUROPE
 SOUTH AMERICA

AUS 2P

 P/N: R-SAA-2(R)
 AUSTRALIA

Standard Cordsets

Below are standard cordsets which are "not included" (unless stated above); these may be purchased separately or packaged with the pow

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supply. Contact your Sales Engineer if the style required is not shown below. Many more available in different lengths, colors or cable material.

[Standard International IEC 320/C7 Cordsets](#)

Part Number	Country	Plug	Connector	Length (mm)	Length (feet)
2094112M703(R)	Argentina (Type I)	IRAM 2063	IEC 320/C7	2000	7
5014112M703A(R)	Australian (Type I)	AS 3112	IEC 320/C7	2000	7
207B4111M8703(R)	Brazil (Type N)	NBR14136	IEC 320/C7	1800	6
4533501M8703(R)	China (Type A)	GB 2099.1	IEC 320/C7	1830	6
2074112M703A(R)	European (Type C)	CEE 7/16	IEC 320/C7	2000	7
2084111M8703(R)	India (Type M)	BS 546	IEC 320/C7	1800	6
451J3401M8703(R)	Japan (Type A)	JIS 8303	IEC 320/C7	1830	6
2044112M703A(R)	Korea (Type C)	KS C8305	IEC 320/C7	2000	7
4511116F703A(R)	N. American (Type A)	NEMA 1-15P	IEC 320/C7	1830	6
4033401M8703A(R)	Taiwan (Type A)	CNS690	IEC 320/C7	1830	6
6104112M703A(R)	UK, Hong Kong, Singapore, Gulf States (Type G)	BS1363	IEC 320/C7	2000	7

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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
	CHINA SJ/T 11364-2014, China RoHS Chart: http://en.globtek.com/globtek-rohs.php
	Declaration # EA3C N RU Д-US.AД75.B.01052 Custom Union of Russia, Belarus and Kazakhstan http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration
EFFICIENCY LEVEL VI	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)
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
	Ukraine UKRSepro (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