

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

Model:GT-96250-25VV-R2

January 22, 2022

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/a00a000000FjsRCEAZ
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a00a000000FjsRCEAZ
REACH Declaration	https://www.globtek.com/pdf/iso_certificates/REACH.pdf
Conflict Minerals Declaration	https://www.globtek.com/pdf/conflict-minerals.pdf

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

Model:GT-96250-25VV-R2

January 22, 2022

MODEL PARAMETERS

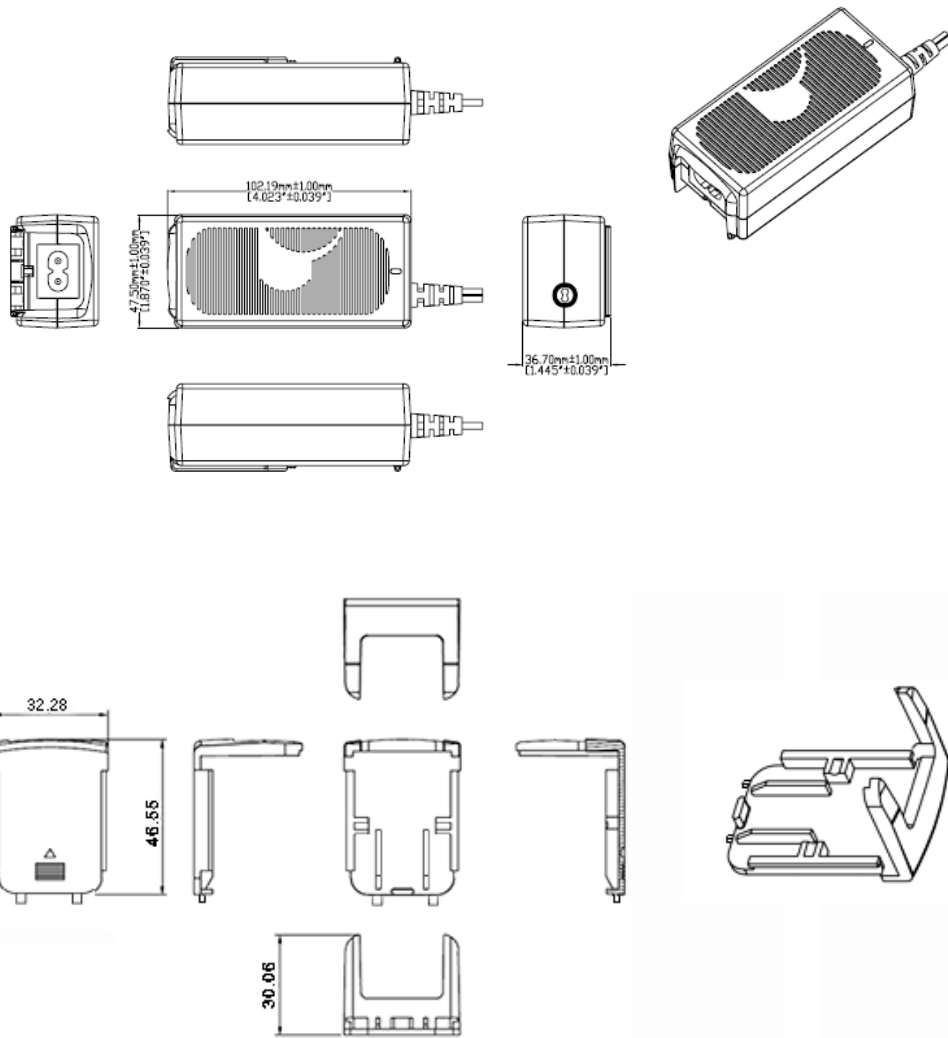
Type	Wall Plug-in+Desktop Combination
Technology	Sigma Wave Ultra Low Leakage Current, CF Compliant Power Supply AC Adaptor
Category	ICT/ITE Power Supply/Class 2 Power Unit
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	1A
Wattage (W)	25.0
Vout Range (V)	5-48
Efficiency Level	USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782
Ingress Protection	IP41, IP52 Option available
Size (mm)	(L)101.73x(W)46.47x(H)38.2mm

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

Model:GT-96250-25VV-R2

January 22, 2022

ENCLOSURE



Unit shipped without an installed input plug.
"Desktop insert" installed.

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

Model:GT-96250-25VV-R2

January 22, 2022

RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GT-96250-2005-R2	5 V	4	20.00	RFQ
GT-96250-2011-R2	11 V	1.818	20.00	RFQ
GT-96250-2512-R2	12 V	2.083	25.00	RFQ
GT-96250-2524-R2	24 V	1.041	24.98	RFQ
GT-96250-2548-R2	48 V	0.521	25.01	RFQ

Model:GT-96250-25VV-R2

January 22, 2022

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) EMC

EN 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

PROPRIETARY INFORMATION

PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.

<https://www.globtek.com/datasheet/w70823>

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

Model:GT-96250-25VV-R2

January 22, 2022

- 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
- 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

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

Model:GT-96250-25VV-R2

January 22, 2022

DERATING CURVE



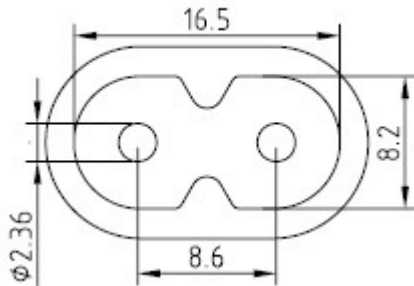
Delivering leading edge, innovative power solutions for more than 30 years....

Model:GT-96250-25VV-R2

January 22, 2022

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.

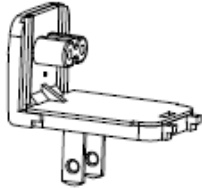
Optional INPUT BLADES: R-Socket: below are available blades configurations which are "not included" (unless stated above); may be purchased separately, packaged with power supply, or as a separate "R-KIT" if specified

# Part Number	Main Country/Region	Plug	IECEE Type
1 R-NA-2(R)	North America, Japan	Nema 1-15P	Type A
2 R-SAA-2(R)	Australia/New Zealand	AS/NZ 3112	Type I
3 R-UK-2(R)	United Kingdom/Ireland	UK, Hong Kong, Singapore, Gulf States	Type G
4 R-EU-2(R)	Europe	CEE 7/16	Type C
5 R-CN-2(R)	China	GB 2099	Type A
6 461-03030003(R)	N/A	R-DI(R) Desktop Insert for use with a cord	N/A
7 R-KIT-2(R)	prepackaged kit	1,2,3,4 above	N/A
8 R-KIT-2-INTL(R)	prepackaged kit	2,3,4 above	N/A

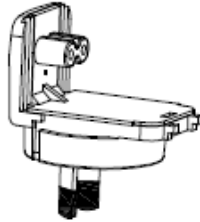
Delivering leading edge, innovative power solutions for more than 30 years....

Model:GT-96250-25VV-R2

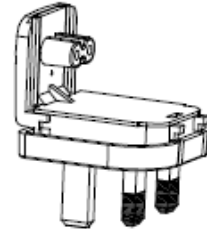
January 22, 2022



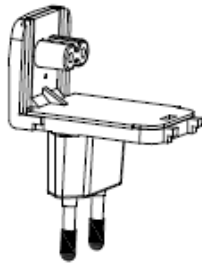
UL 2P

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


AUS 2P

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


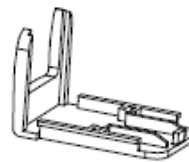
UK 2P

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


EU 2P

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


CN 2P

 P/N: R-CN-2(R)
 CHINA


R-DI

 P/N: R-DI
 DESKTOP INSERT

Standard Cordsets

Below are standard cordsets which are "not included" (unless stated above); these may be purchased separately or packaged with the power 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)
<u>2094112M703(R)</u>	Argentina (Type I)	IRAM 2063	IEC 320/C7	2000	7
<u>5014112M703A(R)</u>	Australian (Type I)	AS 3112	IEC 320/C7	2000	7

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

Model:GT-96250-25VV-R2

January 22, 2022

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)	South Africa (Type M)	BS 546	IEC 320/C7	1800	6
2084111M8703B(R)	India (Type D)	ISI:1293	IEC 320/C7	1800	6
2714111M8703A(R)	India (Type C)	ISI:1293	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

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

Model:GT-96250-25VV-R2

January 22, 2022

OUTPUT CONFIGURATION

Common output connector options:



L Type (Coaxial 5.5x2.5mm plug)



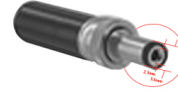
C Type (Coaxial 5.5x2.1mm plug)



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.

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

Model:GT-96250-25VV-R2

January 22, 2022

Approvals

Logo	Description
	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
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)
	Morocco SDoC declaration http://www.globtek.info/certs/Morocco%20SDoC%20Declaration/
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
 1Q276	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