

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

Model:GT-86121-WWVV.V-W2

May 20, 2024

GT-86121-WWVV.V-W2

Information

Model Number

GT-86121-WWVV.V-W2

Description

GT-86121-WWVV.V-W2, ICT/ITE Power Supply, Wall Plug-in, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50/60Hz, NEMA 1-15P, North America Blades, Class II 2 Conductors, Output Rating: 12 Watts, Power rating with convection cooling (W) , 4.2V-24VV in 0.1V increments, Approvals: Double Insulation; LPS 60950; CB 62368; Conforms to 62368-1; LPS 62368; EAC; cULus; WEEE; VCCI; Ukraine; RoHS; Level VI; PSE; PSE; China RoHS;

Model Picture



Agency Documents

<http://www.globtek.info/certs/GT-86121-WWVV-W2/>

CE EC-Declaration

https://www.globtek.com/pdf/ec_declaration/a00a00000PSQ1oEAH

RoHS/RoHS2 Declaration

https://www.globtek.com/pdf/rohs_cert/a00a00000PSQ1oEAH

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-86121-WWVV.V-W2

May 20, 2024

MODEL PARAMETERS

Type	Wall Plug-in
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ICT/ITE Power Supply
Input Voltage	100-240V~, 50/60Hz
I/P Amps (A)	0.5A
Wattage (W)	12.0
Vout Range (V)	4.2V-24V
Efficiency Level	USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782
Ingress Protection	IPX0
Size (mm)	69*28.8*40.3

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.

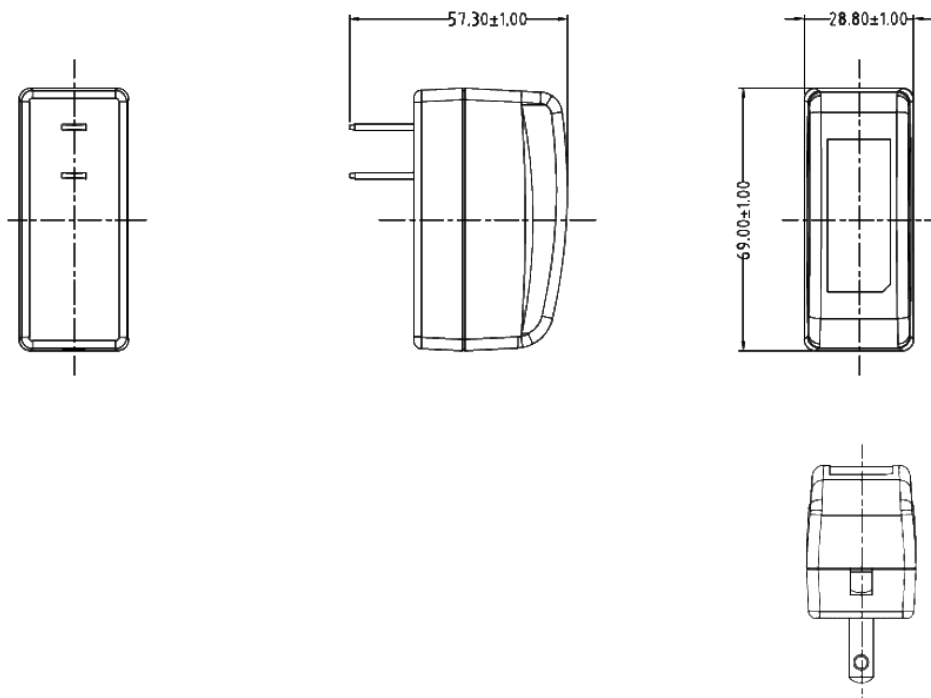
<https://www.globtek.com/ds/hejNmcnBNm6/US7vwgumkei.html>

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

Model:GT-86121-WWVV.V-W2

May 20, 2024

ENCLOSURE



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

Model:GT-86121-WWVV.V-W2

May 20, 2024

RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GT-86121-0904.2-W2	4.2 V	2.1	8.82	RFQ
GT-86121-1005-W2	5 V	2	10.00	RFQ
GT-86121-1105.2-W2	5.2 V	2.1	10.92	RFQ
GT-86121-0909-W2	9 V	1	9.00	RFQ
GT-86121-1209-W2	9 V	1.33	11.97	RFQ
GT-86121-1212-W2	12 V	1	12.00	RFQ
GT-86121-1015-W2	15 V	0.66	9.90	RFQ
GT-86121-1220-W2	20 V	0.6	12.00	RFQ
GT-86121-1224-W2	24 V	0.5	12.00	RFQ

SPECIFICATIONS

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%
04. Ripple and Noise (Vp-p): 200 mVp-p maximum, At 20 MHz, and output parallel with 0.1uF & 47uF capacitors to ground. Temperature at 25 °C, and nominal input voltage
05. Efficiency: Compliant with Efficiency Level VI and ErP European Commission's Ecodesign Directive (2005/32/EC) / CoC Tier 2 Compliant
06. No Load Standby Power: <0.075W @ 230Vac
07. Turn-ON Delay: 3 Seconds maximum at nominal input voltage
08. Rise Time: 100mS maximum at nominal input voltage

B) PROTECTION

01. Over-Voltage
02. Over current protection with auto-recovery function
03. Short Circuit: Short circuit protection is to be included in the construction of the adaptor. The adaptor is designed to withstand continuous current of a short circuit on the output. The adaptor will be short circuit tolerant for an indefinite period.

C) SAFETY

01. Dielectric Withstand Voltage: 3000VAC 10mA 1minute or 4242VDC 10mA 1minute from primary to secondary
02. Leakage current: 0.25mA maximum, at nominal AC input voltage and frequency

D) EMC

01. Emissions, per EN 55032, EN 61000-6-3, EN 61000-6-4
 - Conducted Emissions: Class B, FCC Part 15, Class B
 - Radiated Emissions: Class B, FCC Part 15, Class B
02. Line Frequency Harmonics EN61000-3-2, Class A
03. Voltage Fluctuations/Flicker EN61000-3-3
04. Immunity, per EN 55024, EN 61000-6-1, EN 61000-6-2
 - Static Discharge Immunity EN61000-4-2, 4kV Contact Discharge, 8kV air discharge
 - Radiated RF Immunity EN61000-4-3, 3V/m 80-1000MHz, 80% 1KHz AM.
 - EFT/Burst Immunity EN61000-4-4, 1kV/100kHz.
 - Line Surge Immunity EN61000-4-5, 1kV differential, 2kV common-mode
 - Conducted RF Immunity EN61000-4-6, 3Vrms, 80% 1KHz AM
 - Power Frequency Magnetic Field Immunity EN61000-4-8, 1A/m
 - Voltage Dip Immunity EN61000-4-11, Criteria

E) OTHER:

01. MTBF: 200,000 Hours @ 25°C ambient temperature
02. Operating Temperature: 0°C to 50°C ambient temperature (RFP7139)
03. Humidity: 5% to 90% relative humidity
04. Storage Temperature: -20°C to 60°C
05. Cooling: natural convection cooling
06. ROHS 2: Complies with EU 2011/65/EU and China SJ/T 11363-2006

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/ds/hejNmcnBNm6/US7vvgumkei.html>

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

Model:GT-86121-WWVV.V-W2

May 20, 2024

F) ENCLOSURE

01. Housing: High impact plastic, 94V0 polycarbonate, non-vented

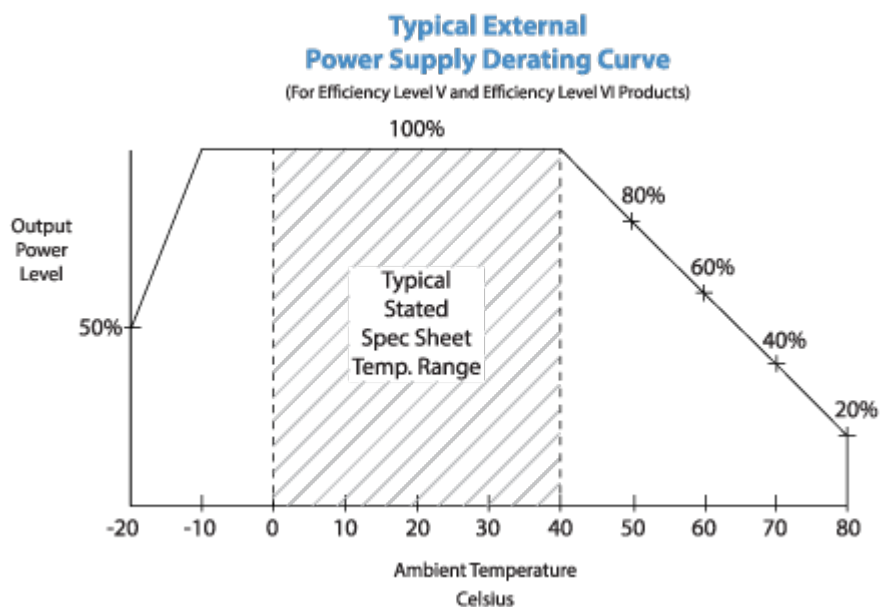
02. Markings: Label and/or Pad Printed and/or Molded in the case

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

Model:GT-86121-WWVV.V-W2

May 20, 2024

DERATING CURVE



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

Model:GT-86121-WWVV.V-W2

May 20, 2024

INPUT CONFIGURATION

Description	NEMA 1-15P, North America Blades, Class II 2 Conductors
-------------	---

All NEMA 1 devices are two-wire non-grounding devices (hot-neutral) rated for 125 V maximum. NEMA 1-15P plugs have two parallel flat blades, 0.25 inches (6.35 mm) wide, 0.06 inches (1.524 mm) thick, 0.625-0.718 inches (15.875–18.256 mm) long, and spaced 0.5 inches (12.7 mm) apart.

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

Model:GT-86121-WWVV.V-W2

May 20, 2024

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.

Model:GT-86121-WWVV.V-W2

May 20, 2024

Approvals

Logo	Description
No Logo Applicable	CB for IEC 62368-1:2014 (Second Edition)
	CHINA SJ/T 11364-2014, China RoHS Chart: http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%205-20-22.pdf
Conforms to UL STD. 62368-1 Certified to CSA STD C22.2 NO.62368-1	Conforms to UL STD. 62368-1 Certified to CSA STD C22.2 NO.62368-1
	UL 60950-1, 2nd Edition, 2014-10-14 (Information Technology Equipment - Safety - Part 1: General Requirements) CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10 (Information Technology Equipment - Safety - Part 1: General Requirements)
	
	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
	Indoor Use Only - Mark is on the label or Molded in the case
	JAPAN TUV R-PSE, Cert. No. JD 50471624, to J62368-1(H30) , J55032(H29),J3000(H25,[15V or less]. Please reference the following website for guidelines on PSE regulations: https://www.globtek.com/r2/Szj4Vb
	JAPAN TUV R-PSE, Cert. No. JD 50471624 J62368-1(H30) , J55032(H29),J3000(H25),[DC15V?30V]. Please reference the following website for guidelines on PSE regulations: https://www.globtek.com/r2/Szj4Vb
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)

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

Model:GT-86121-WWVV.V-W2

May 20, 2024

	Limited Power Source 60950
	Limited Power Source 62368
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 UKR Sepro (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