

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

Model:GT-83081-12VV-X.X-W2

October 7, 2022

## GT-83081-12VV-X.X-W2

### Information

Model Number	GT-83081-12VV-X.X-W2
Description	GT-83081-12VV-X.X-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) , 3.3~28V in 0.1V increments, Approvals: WEEE; Double Insulation; RoHS; China RoHS; Designed to meet 60950-1; GOST-R; Ukraine; VCCI; Level V; LPS 60950;

### Model Picture



Agency Documents	<a href="http://www.globtek.info/certs/GT-83081-W2Z/">http://www.globtek.info/certs/GT-83081-W2Z/</a>
CE EC-Declaration	<a href="https://www.globtek.com/pdf/ec_declaration/a00a00000MEhzjEAD">https://www.globtek.com/pdf/ec_declaration/a00a00000MEhzjEAD</a>
RoHS/RoHS2 Declaration	<a href="https://www.globtek.com/pdf/rohs_cert/a00a00000MEhzjEAD">https://www.globtek.com/pdf/rohs_cert/a00a00000MEhzjEAD</a>
REACH Declaration	<a href="https://www.globtek.com/pdf/iso_certificates/REACH.pdf">https://www.globtek.com/pdf/iso_certificates/REACH.pdf</a>
Conflict Minerals Declaration	<a href="https://www.globtek.com/pdf/conflict-minerals.pdf">https://www.globtek.com/pdf/conflict-minerals.pdf</a>

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**MODEL PARAMETERS**

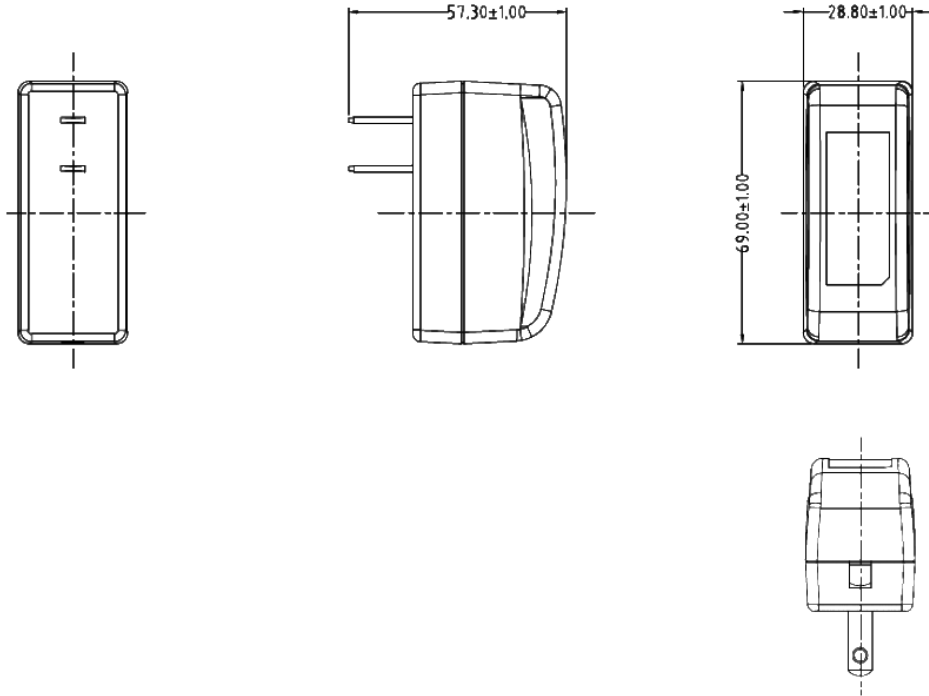
Type	Wall Plug-in
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ICT/ITE Power Supply
Input Voltage	100-240V~, 50/60Hz
I/P Amps (A)	0.5A
Wattage (W)	12.0
Vout Range (V)	3.3~28
Efficiency Level	V
Ingress Protection	IPX0
Size (mm)	69*28.8*40.3

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# ENCLOSURE



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## RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GT-83081-0703.3-W2	3.3 V	2	6.60	<a href="#">RFQ</a>
GT-83081-1005-W2	5 V	2	10.00	<a href="#">RFQ</a>
GT-83081-1009-3.05-W2	5.95 V	1.68	10.00	<a href="#">RFQ</a>
GT-83081-0909-3.0-W2	6 V	1.5	9.00	<a href="#">RFQ</a>
GT-83081-0807.5-W2	7.5 V	1	7.50	<a href="#">RFQ</a>
GT-83081-1209-W2	9 V	1.2	10.80	<a href="#">RFQ</a>
GT-83081-0909-W2	9 V	1	9.00	<a href="#">RFQ</a>
GT-83081-1212-W2	12 V	1	12.00	<a href="#">RFQ</a>
GT-83081-1213.3-W2	13.3 V	0.9	11.97	<a href="#">RFQ</a>
GT-83081-1215-W2	15 V	0.8	12.00	<a href="#">RFQ</a>
GT-83081-1028-W2	28 V	0.35	9.80	<a href="#">RFQ</a>

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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%
04. Ripple and Noise (Vp-p): 100 mVp-p maximum, At 20 MHz, and output parallel with 0.1uF & 10uF capacitors to ground. Temperature at 25 °C, and nominal input voltage
05. Average Efficiency: 75.95% minimum, At 115VAC/230VAC input voltage meet efficiency level: V
06. Turn-ON Delay: 3 Seconds maximum at nominal input voltage
07. Rise Time: 100mS maximum at nominal input voltage
08. Switching Frequency: 50 KHz typical

### B) PROTECTION

01. Over-Voltage: protected
02. Over current protection: 2.2A maximum 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: Primary To Secondary: 3000VAC 10mA 1minute or 4242VDC 10mA 1minute
02. Leakage Current: 0.25mA maximum, at nominal AC input voltage and frequency

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

### E) ENCLOSURE

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

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## DERATING CURVE

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**INPUT CONFIGURATION**

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

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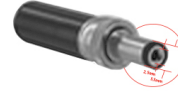
**OUTPUT CONFIGURATION**

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
	Attention Mark / Refer to operating manual for operating and service instructions
	CHINA SJ/T 11364-2014, China RoHS Chart: <a href="http://en.globtek.com/globtek-rohs.php">http://en.globtek.com/globtek-rohs.php</a>
No Logo	Designed to meet UL60950-1, cULus to UL 60950-1, 2nd Edition, 2007-03-27 and CSA C22.2 No. 60950-1-07, 2nd Edition, 2007-03
	
	GOST-R mark for Russia(Document: <a href="http://www.globtek.com/html/iso_certificates/GT_GOST-R.pdf">http://www.globtek.com/html/iso_certificates/GT_GOST-R.pdf</a> ). 03/15/2015. Due to lack of demand, GlobTek will not be renewing it's GOST certification. Please contact your sales engineer for pricing on EAC.
	Indoor Use Only - Mark is on the label or Molded in the case
<b>EFFICIENCY LEVEL</b> 	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 60950
RoHS	Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863-EU (ROHS-3) <a href="http://www.ce-mark.com/Rohs%20final.pdf">http://www.ce-mark.com/Rohs%20final.pdf</a>
 10276	Ukraine UKRsepro (Document: <a href="http://www.globtek.com/html/iso_certificates/GT_Ukraine.pdf">www.globtek.com/html/iso_certificates/GT_Ukraine.pdf</a> )
	Japan: Voluntary Control Council for Interference (VCCI)
	WEEE: Complies with EU 2012/19/EU ( <a href="http://ec.europa.eu/environment/waste/weee/index_en.htm">http://ec.europa.eu/environment/waste/weee/index_en.htm</a> ) Mark is on the label or Molded in the case

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