

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

Model:GT-83081-12VV-X.X-W2U

May 3, 2024

GT-83081-12VV-X.X-W2U

Information

Model Number	GT-83081-12VV-X.X-W2U
Description	GT-83081-12VV-X.X-W2U, ICT/ITE Power Supply, Wall Plug-in, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, UK BS 1363, 2 Blade w/Dummy Ground Class II, Output Rating: 12 Watts, Power rating with convection cooling (W) , 3.3~28V in 0.1V increments, Approvals: Level V; UKCA; China RoHS; Double Insulation; GOST-R; RoHS; Ukraine; WEEE; CE; LPS 60950;

Model Picture



Agency Documents	http://www.globtek.info/certs/GT-83081-W2Z/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0Oa000000MEsTKEA1
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0Oa000000MEsTKEA1
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-83081-12VV-X.X-W2U

May 3, 2024

MODEL PARAMETERS

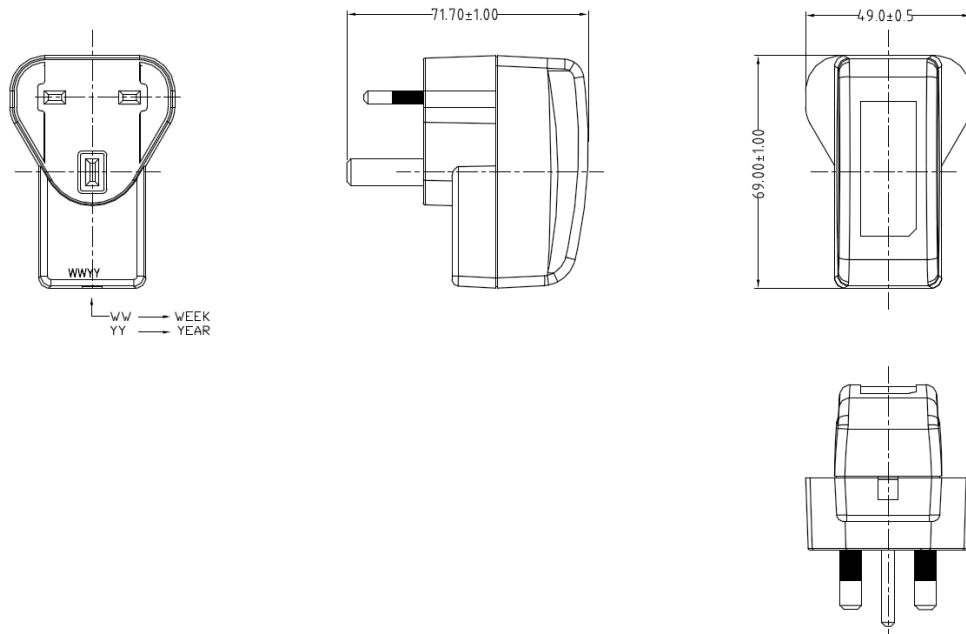
Type	Wall Plug-in
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ICT/ITE Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	0.5A
Wattage (W)	12.0
Vout Range (V)	3.3~28
Efficiency Level	V
Ingress Protection	IPX0
Size (mm)	71.7*69.0*49.0

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

Model:GT-83081-12VV-X.X-W2U

May 3, 2024

ENCLOSURE



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

Model:GT-83081-12VV-X.X-W2U

May 3, 2024

RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GT-83081-0703.3-W2U	3.3 V	2	6.60	RFQ
GT-83081-1005-W2U	5 V	2	10.00	RFQ
GT-83081-0906-W2U	6 V	1.5	9.00	RFQ
GT-83081-0807.5-W2U	7.5 V	1	7.50	RFQ
GT-83081-0909-W2U	9 V	1	9.00	RFQ
GT-83081-1212-W2U	12 V	1	12.00	RFQ
GT-83081-1213.3-W2U	13.3 V	0.9	11.97	RFQ
GT-83081-1215-W2U	15 V	0.8	12.00	RFQ
GT-83081-1028-W2U	28 V	0.35	9.80	RFQ

Model:GT-83081-12VV-X.X-W2U

May 3, 2024

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

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

Model:GT-83081-12VV-X.X-W2U

May 3, 2024

DERATING CURVE

Model:GT-83081-12VV-X.X-W2U

May 3, 2024

INPUT CONFIGURATION

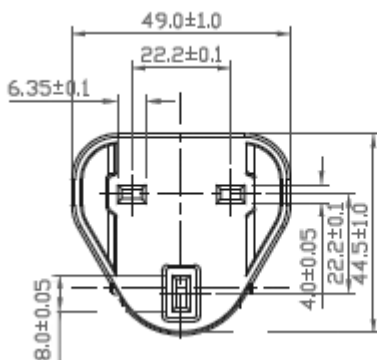
Description

UK BS 1363, 2 Blade w/Dummy Ground Class II

The line and neutral pins have a rectangular cross section 6.35 mm by 4.0 mm, 17.7 mm long and with centres 22.2 mm apart. The protective-earth pin is a rectangular cross section 8.0 mm by 4.0 mm, 22.3 mm long and with a centre line 22.2 mm from the line/neutral pin centre line. The dimensions were originally specified in decimal inches with asymmetric tolerances and redefined as minimum and maximum metric dimensions in BS 1363:1984.

Dimensions are chosen to provide safe clearance to live parts. The distance from any part of the line and neutral pins to the periphery of the plug base must be not less than 9.5 mm. This ensures that nothing can be inserted alongside a pin when the plug is in use, and helps keep fingers away from the pins. The minimum insertion distance from the face of the socket-outlet to the first point of contact with a live part is 9.6 mm.

The "Dummy" longer earth pin ensures that the earth path is connected before the live pins, and remains connected after the live pins are removed. The earth pin is too large to be inserted into the line or neutral sockets by mistake.



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

Model:GT-83081-12VV-X.X-W2U

May 3, 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-83081-12VV-X.X-W2U

May 3, 2024

Approvals

Logo	Description
	Attention Mark / Refer to operating manual for operating and service instructions
	CE Certification
	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
	
	GOST-R mark for Russia(Document: http://www.globtek.com/html/iso_certificates/GT_GOST-R.pdf). 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
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)
LPS	Limited Power Source 60950
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

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

Model:GT-83081-12VV-X.X-W2U

May 3, 2024

	UKCA Certification
 10276	Ukraine UKRSepro (Document: www.globtek.com/html/iso_certificates/GT_Ukraine.pdf)
	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