

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

Model:GT-86180-18VV-W2U

July 25, 2021

## GT-86180-18VV-W2U

### Information

Model Number	GT-86180-18VV-W2U
Description	GT-86180-18VV-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: 18 Watts, Power rating with convection cooling (W) , 9-14V in 0.1V increments, Approvals: UKCA; China RoHS; Double Insulation; SIQ; LPS 60950; WEEE; RoHS; Ukraine; EAC; CE;

### Model Picture



Agency Documents	<a href="http://www.globtek.info/certs/GT-86180-WVVV-W2/">http://www.globtek.info/certs/GT-86180-WVVV-W2/</a>
CE EC-Declaration	<a href="https://www.globtek.com/pdf/ec_declaration/a0Oa000000FjGbSEAV">https://www.globtek.com/pdf/ec_declaration/a0Oa000000FjGbSEAV</a>
RoHS/RoHS2 Declaration	<a href="https://www.globtek.com/pdf/rohs_cert/a0Oa000000FjGbSEAV">https://www.globtek.com/pdf/rohs_cert/a0Oa000000FjGbSEAV</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**

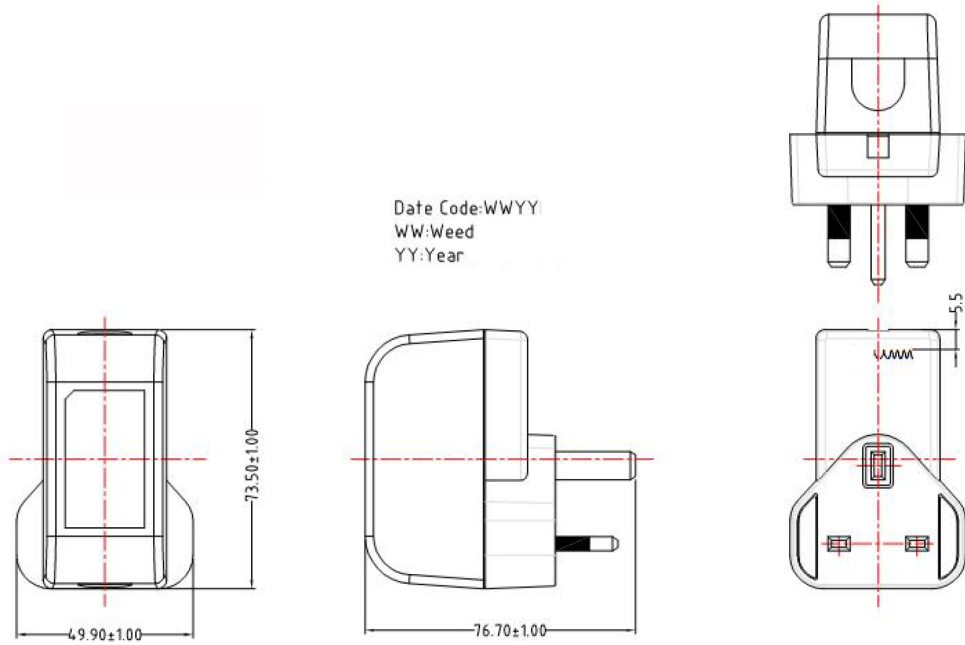
Type	Wall Plug-in
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ICT/ITE Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	0.6 A
Wattage (W)	18.0
Vout Range (V)	9-14
Efficiency Level	USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782
Ingress Protection	Indoor Use
Size (mm)	73.5 (L) * 49.9 (W) * 54(H) mm maximu

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# ENCLOSURE



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## RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GT-86180-1809-W2U	9 V	2	18.00	<a href="#">RFQ</a>
GT-86180-1812-W2U	12 V	1.5	18.00	<a href="#">RFQ</a>

## 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. Inrush Current: at full load, 25° C, cold start
04. Efficiency: Compliant with Efficiency Level VI and ErP European Commission's Ecodesign Directive (2005/32/EC) / CoC Tier 2 Compliant
05. No Load Standby Power: <math><0.075W @ 230Vac</math>
06. Line regulation:  $\pm 2\%$  At nominal input voltage and full load
07. Total output regulation:  $\pm 5\%$
08. Output Voltage: Tolerance  $\pm 5\%$
09. Turn On Delay: 3 Seconds maximum at nominal input Voltage
10. Hold Up Time: 5ms min at nominal Input Voltage
11. Ripple Voltage: 200 mVp-p At 20 MHz, and output parallel with 0.1uF & 10uF capacitors to ground Temperature at 25°C, and nominal input voltage

### B) PROTECTION

01. Over voltage protection: Output shut down and auto restart
02. Short circuit protection: The adapter shall not be damaged by short the DC output to Ground
03. Over Load Protection: Output shut down and auto restart

### C) SAFETY

01. HI-POT : Input to output : 3000VAC or 4242VDC 10mA 1 minute
02. Leakage current: 0.25mA maximum, at nominal AC input voltage and frequency
03. ESD: 8KV(air) / 4KV (contact)

### 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 40°C ambient temperature
03. Humidity Operating : 20% to 85%
04. Storage Temperature: -20°C to 60°C

## PROPRIETARY INFORMATION

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<https://en.globtek.com/datasheet/id/a00a000000FjGbS>

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05. RoHS 2: Complies with EU 2011/65/EU and China GB/T26572-2011

## F) ENCLOSURE

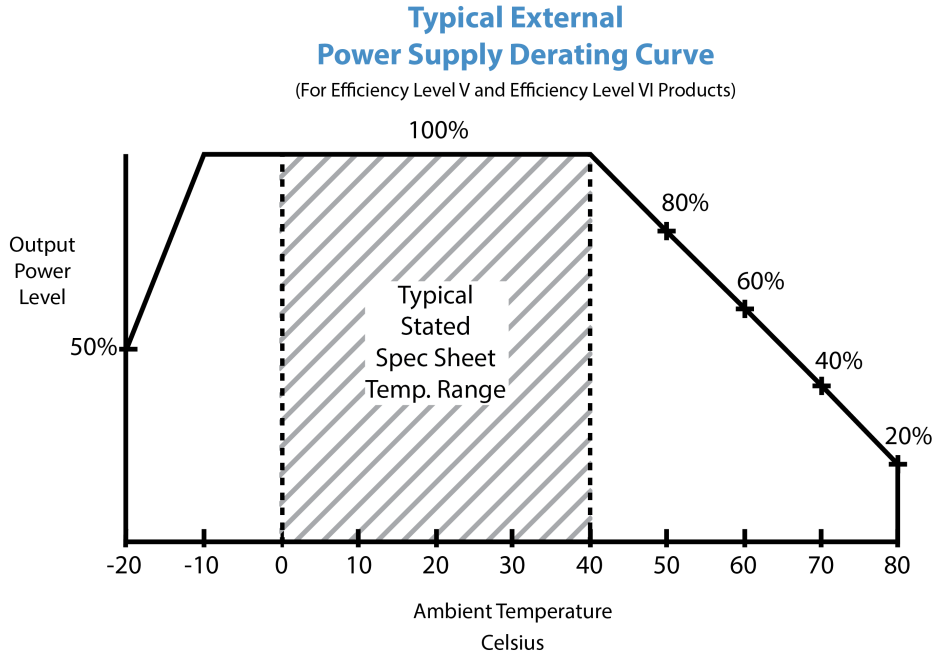
- 01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
- 02. Size: 74.5 (L) \* 36 (W) \* 64(H) mm maximum
- 03. Weight : 180.0 g
- 04. Markings: Label and/or Pad Printed and/or Molded in the case

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## DERATING CURVE



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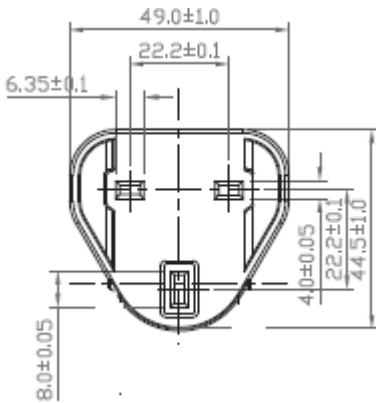
**INPUT CONFIGURATION**

 Description 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.





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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
	CE Certification
	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>
	
	Declaration ДС № EAЭC N RU Д-US.KA01.B.10453_19 Custom Union of Russia, Belarus and Kazakhstan <a href="http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration">http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration</a>
	Indoor Use Only - Mark is on the label or Molded in the case
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>
 IEC/EN60950-1	SIQ Mark License Certificate EN 60950-1:2006 + Am 1:2010+ Am 11:2009 + Am 12:2011
	UKCA Certification
	UKCA Certification
 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> )

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WEEE: Complies with EU 2012/19/EU (  
[http://ec.europa.eu/environment/waste/weee/index\\_en.htm](http://ec.europa.eu/environment/waste/weee/index_en.htm))  
Mark is on the label or Molded in the case