

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

Model:GT-86181-WWV.V-W2

September 19, 2019

GT-86181-WWV.V-W2

Information

Model Number GT-86181-WWV.V-W2

Description GT-86181-WWV.V-W2, 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: 18 Watts, Power rating with convection cooling (W) , 9-12, 15-18V in 0.1V increments, Approvals: cULus; Level VI; EAC; CE; China RoHS; WEEE; VCCI; Ukraine; RoHS; PSE; Double Insulation;

Model Picture



Agency Documents <http://www.globtek.info/certs/GT-86181-W2/>
CE https://www.globtek.com/pdf/ec_declaration/a0Oa000000FlgfoEAB
EC-Declaration
RoHS/RoHS2 Declaration https://www.globtek.com/pdf/rohs_cert/a0Oa000000FlgfoEAB
REACH Declaration https://www.globtek.com/pdf/iso_certificates/REACH.pdf
Conflict Minerals Declaration <https://www.globtek.com/pdf/conflict-minerals.pdf>

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Model Parameters

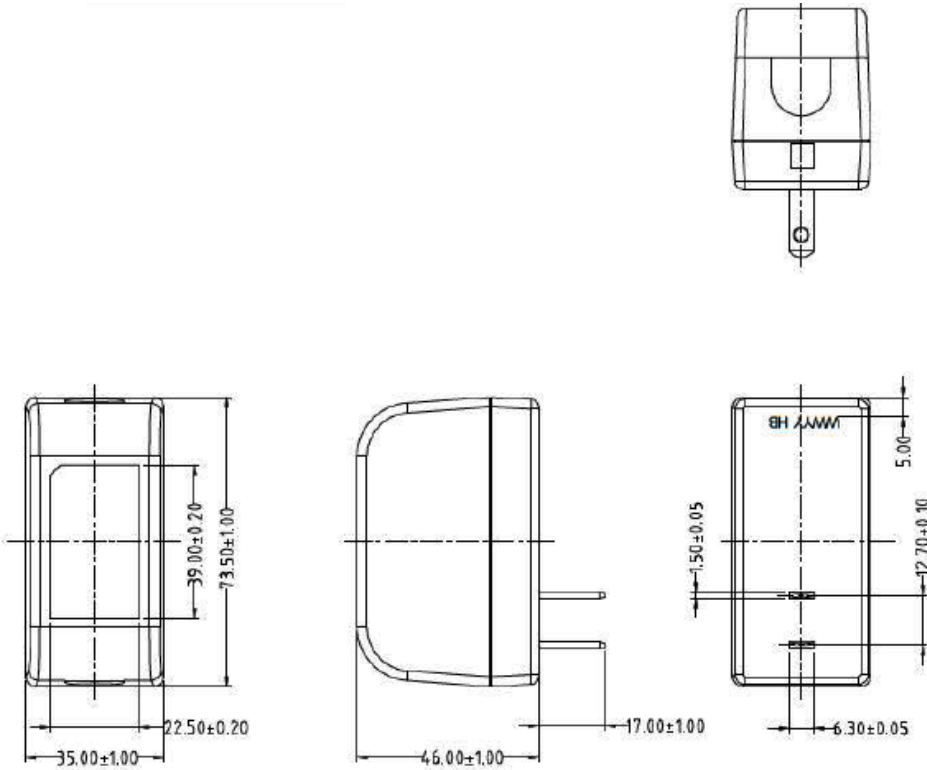
| | |
|--------------------|--|
| Type | Wall Plug-in |
| Technology | Regulated Switchmode AC-DC Power Supply AC Adaptor |
| Category | ITE Power Supply |
| Input Voltage | 100-240V~, 50/60Hz |
| I/P Amps (A) | 0.6 A |
| Wattage (W) | 18.0 |
| Vout Range (V) | 9-12, 15-18 |
| Efficiency Level | VI |
| Ingress Protection | Indoor Use |
| Size (mm) | 73.5 (L) * 35.0 (W) * 46.0(H) max |

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ENCLOSURE



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RATING TABLE

| Model Number | Voltage | Amps(A) | Watts(W) | RFQ |
|-----------------------|---------|---------|----------|---------------------|
| GT-86181-1809 -W29 V | 2 | | 18.00 | RFQ |
| GT-86181-1810 -W210 V | 1.8 | | 18.00 | RFQ |
| GT-86181-1811 -W211 V | 1.636 | | 18.00 | RFQ |
| GT-86181-1812 -W212 V | 1.5 | | 18.00 | RFQ |
| GT-86181-1815 -W215 V | 1.2 | | 18.00 | RFQ |
| GT-86181-1816 -W216 V | 1.125 | | 18.00 | RFQ |
| GT-86181-1817 -W217 V | 1.058 | | 17.99 | RFQ |
| GT-86181-1818 -W218 V | 1 | | 18.00 | RFQ |

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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. Inrush Current: at full load, 25° C, cold start
04. Efficiency: Compliant with Efficiency Level VI and CoC Tier 2 standards
05. No Load Standby Power: <0.075W @ 230Vac
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: 300 mVp-p At 20 MHz, and output parallel with Low Impedance 0.1uF & 47uF capacitors. 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) 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
05. RoHS 2: Complies with EU 2011/65/EU and China GB/T26572-2011

E) ENCLOSURE

01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
02. Size: 74.5 (L) * 36 (W) * 46(H) mm maximum
03. Weight : 107.0 g $\pm 15\%$
04. Markings: Label and/or Pad Printed and/or Molded in the case

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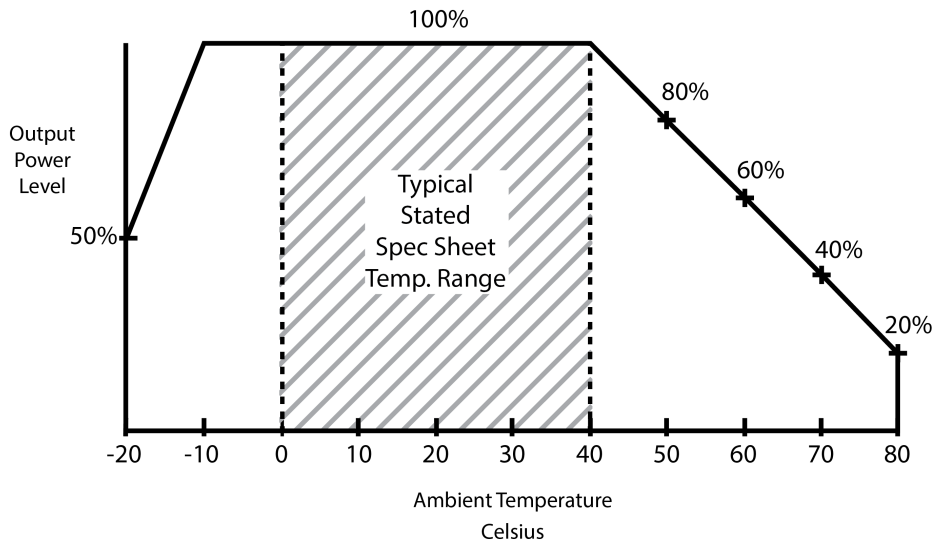
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DERATING CURVE

**Typical External
Power Supply Derating Curve**

(For Efficiency Level V and Efficiency Level VI Products)



w2

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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.

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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: http://en.globtek.com/globtek-rohs.php |
|  | 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 |
| EFFICIENCY LEVEL VI  | 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) |
|  GlobTek, Inc. | JAPAN TUV Rheinland-PSE GlobTek Inc to J60950-1(H26) , J55022(H22),J3000(H25).Please follow the procedure listed in the following link for proper import to Japan: http://en.globtek.com/importing-to-japan.php . |
| 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 |
|  10276 | 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 |