

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

Model:GT-86180-18VV-G (G-blade)

August 17, 2019

## GT-86180-18VV-G (G-blade)

### Information

Model Number GT-86180-18VV-G (G-blade)

Description GT-86180-18VV-G (G-blade), ITE Power Supply, Wall Plug-in, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60Hz, Blade Options for G- Series Wall Plug-in Power Supplies, Output Rating: 18 Watts, Power rating with convection cooling (W) , 12VV in 0.1V increments, Approvals: cULus; EAC; PSE;

Model Picture



Agency Documents <http://en.globtek.com/safety-agency-documents-pending/>  
CE [https://www.globtek.com/pdf/ec\\_declaration/a0Oa000000MmpA8EAJ](https://www.globtek.com/pdf/ec_declaration/a0Oa000000MmpA8EAJ)  
EC-Declaration  
RoHS/RoHS2 Declaration [https://www.globtek.com/pdf/rohs\\_cert/a0Oa000000MmpA8EAJ](https://www.globtek.com/pdf/rohs_cert/a0Oa000000MmpA8EAJ)  
REACH Declaration [https://www.globtek.com/pdf/iso\\_certificates/REACH.pdf](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**

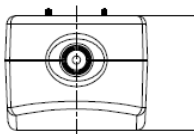
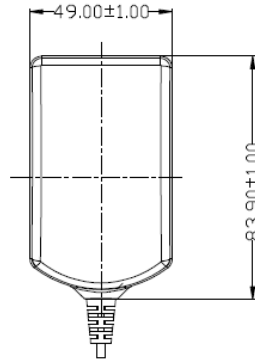
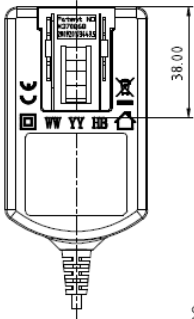
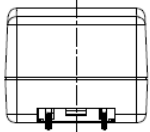
|                    |  |
|--------------------|--|
| Type               | Wall Plug-in                                       |
| Technology         | Regulated Switchmode AC-DC Power Supply AC Adaptor |
| Category           | ITE Power Supply                                   |
| Input Voltage      | 100-240V~, 50-60Hz                                 |
| I/P Amps (A)       | 1A   |
| Wattage (W)        | 18.0   |
| Vout Range (V)     | 12V  |
| Efficiency Level   | VI   |
| Ingress Protection | IPX0   |
| Size (mm)          | 83.9(L) *49(W) *39.5(H)                            |

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ENCLOSURE



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**RATING TABLE**

| Model Number      | Voltage | Amps(A) | Watts(W) | RFQ                 |
|-------------------|---------|---------|----------|---------------------|
| GT-86180-1812-G12 | V       | 1.5     | 18.00    | <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: 4.5V-5.3V
04. Ripple and Noise (Vp-p): 250 mVp-p maximum, At 20 MHz, and output parallel with 0.1uF & 10uF capacitors to ground, Temperature at 25 °C, and nominal AC input voltage
05. Average Efficiency: 78.5% minimum , At nominal input voltage average Efficiency meet CEC VI and ErP European Commission's Ecodesign Directive (2005/32/EC) / CoC Tier 2 Compliant
06. Turn-ON Delay: 3s maximum at nominal AC input voltage

**B) PROTECTION**

01. Over-Voltage: 14V maximum
02. Over current protection: 4.5A maximum with auto-recovery function
03. Short Circuit: The adapter shall not be damaged by short the DC output to Ground.

**C) SAFETY**

01. Dielectric Withstand Voltage: Primary To Secondary: 3000VAC 10mA 1minute or 4242VDC 10mA 1minute
02. Leakage Current: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: 0% 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

**F) ENCLOSURE**

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

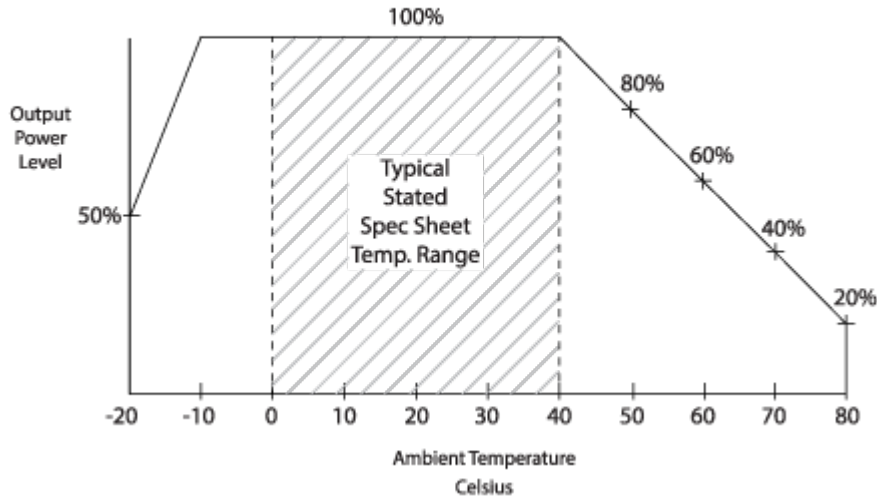
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**DERATING CURVE**

**Typical External  
Power Supply Derating Curve**  
(For Efficiency Level V and Efficiency Level VI Products)



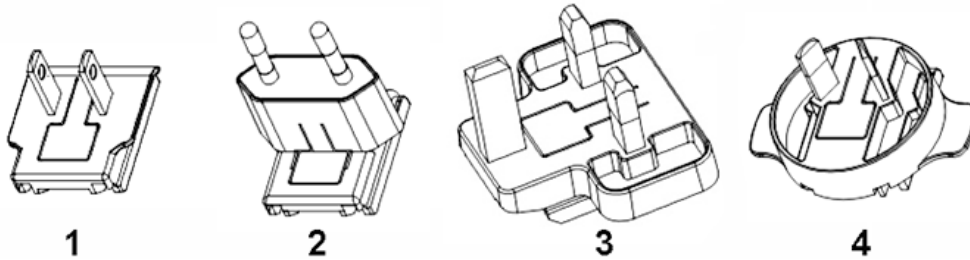
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### Input Configuration

Description Blade Options for G- Series Wall Plug-in Power Supplies



INPUT CONNECTOR: G-Socket (below are available blades configurations which are "not included" (unless stated above); can be purchased separately, package with power supply or as a separate "G-KIT" if specified

- 01. United States / Canada / Japan NEMA 1-15P configuration: NA 2 blades, Class II; US/CA/JP P/N: G-NA(R)
- 02. European CEE 7/16 configuration: Europlug 2 pins, Class II; EU P/N: G-EU(R)
- 03. UK BS 1363 configuration: UK 3 blade with dummy Ground, Class II; GB P/N: G-UK(R)
- 04. Australian AS 3112 configuration: SAA 2 blade, Class II; AU P/N: G-SAA(R)

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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  |
|---|--|
|   | UL 60950-1, 2nd Edition, 2014-10-14 (Information Technology Equipment - Safety - Part 1: General Requirements)<br>CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10 (Information Technology Equipment - Safety - Part 1: General Requirements)  |
|  | Declaration ДС № EAЭС N RU Д-US.KA01.B.10453_19 Custom Union of Russia, Belarus and Kazakhstan<br><a href="http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration">http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration</a>  |
|  | JAPAN TUV R-PSE, Cert. No. JD 50313285, to J60950-1(H26) , J55022(H22),J3000(H25)[15V or less]. Please reference the following website for guidelines on PSE regulations:<br><a href="http://en.globtek.com/importing-ite-and-medical-power-supplies-ac-adaptors-to-japan/">http://en.globtek.com/importing-ite-and-medical-power-supplies-ac-adaptors-to-japan/</a> |