

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

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

May 19, 2024

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

Information

Model Number	GT-86180-18VV-G (G-blade)
Description	18 W, DoE Level VI & CoC V5 Tier 2 Efficiency, Interchangeable Input Blades, Wall Plug Adapter, Ac-Dc Power Supply

Model Picture



Agency Documents	http://en.globtek.com/safety-agency-documents-pending/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0Oa000000MmpA8EAJ
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0Oa000000MmpA8EAJ
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

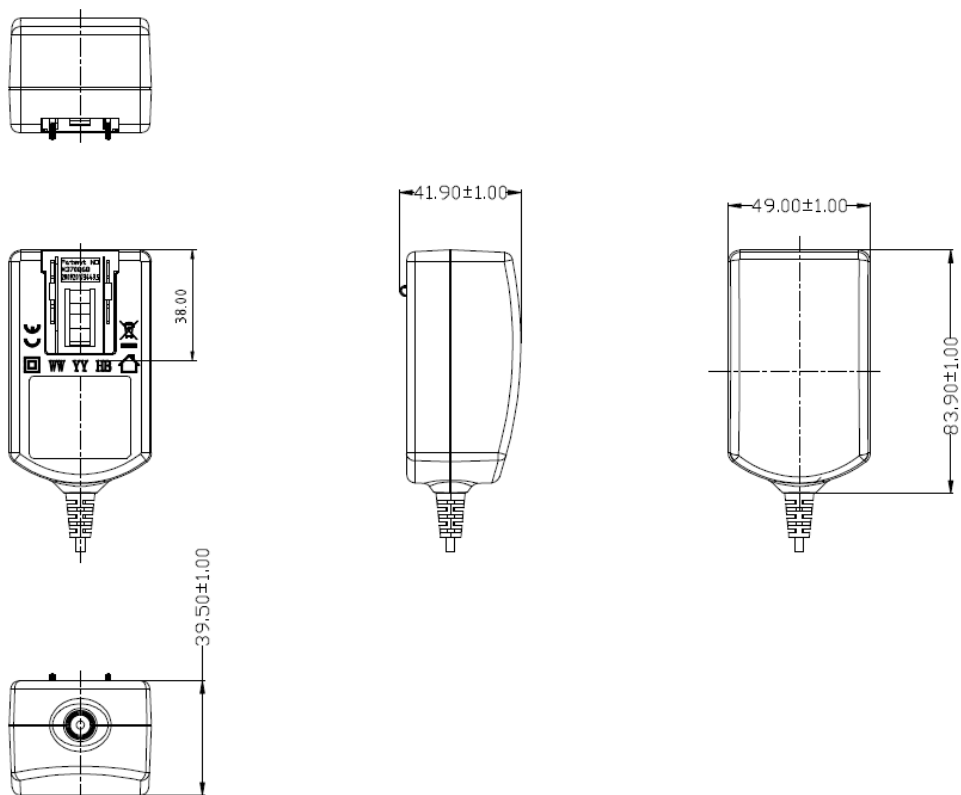
Type	Wall Plug-in
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ICT/ITE Power Supply
Input Voltage	100-240V~, 50-60Hz
I/P Amps (A)	1A
Wattage (W)	18.0
Vout Range (V)	12V
Efficiency Level	USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782
Ingress Protection	IPX0
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-G	12 V	1.5	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. 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

PROPRIETARY INFORMATION

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<https://www.globtek.com/ds/GAGvpioNpbY/kd7HF8s2iXs.html>

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F) ENCLOSURE

01. Housing: High impact plastic, 94V0 polycarbonate, non-vented

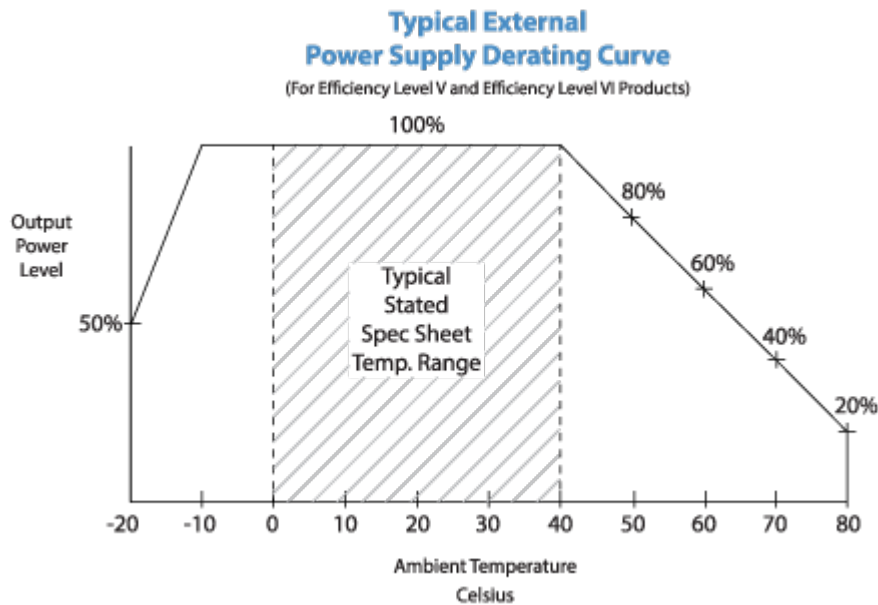
02. Markings: Label and/or Pad Printed and/or Molded in the case

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DERATING CURVE



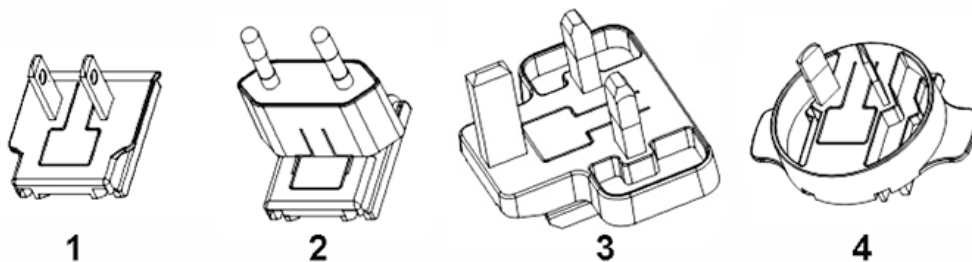
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INPUT CONFIGURATION

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) 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
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50473430, to J62368-1(H30) , J55032(H29),J3000(H25)[15V or less]. Please reference the following website for guidelines on PSE regulations: https://www.globtek.com/r2/Szj4Vb
	Morocco SDoC declaration http://www.globtek.info/certs/Morocco%20SDoC%20Declaration/
	UKCA Certification