

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

Model:GTM86100-10VV-W2A-USB

August 17, 2019

GTM86100-10VV-W2A-USB

Information

Model Number GTM86100-10VV-W2A-USB

Description GTM86100-10VV-W2A-USB, ITE / Medical Power Supply, Wall Plug-in, AC/DC Switching Adapter with USB Power Supply AC Adaptor, , Input Rating: 100-240V- , 50/60Hz, Australian AS 3112 configuration: SAA 2 pins Class II, Output Rating: 10 Watts, Power rating with convection cooling (W) , 5-5.2V in 0.1V increments, Approvals: CB 60335; CE; China RoHS; Double Insulation; EAC; Level VI; RoHS; VCCI; WEEE; RCM; CB 62368;

Model Picture

Agency

Documents <http://www.globtek.info/certs/GTM86100/>

CE

EC-Declaration https://www.globtek.com/pdf/ec_declaration/a000c00000PsvZaEAJ

RoHS/RoHS2

Declaration https://www.globtek.com/pdf/rohs_cert/a000c00000PsvZaEAJ

REACH

Declaration https://www.globtek.com/pdf/iso_certificates/REACH.pdf

Conflict

Minerals

Declaration <https://www.globtek.com/pdf/conflict-minerals.pdf>

Declaration

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August 17, 2019

Model Parameters

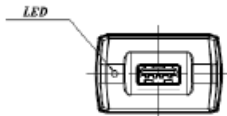
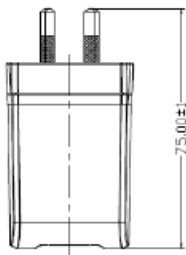
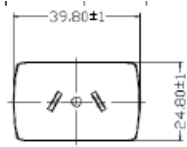
Type	Wall Plug-in
Technology	AC/DC Switching Adapter with USB Power Supply AC Adaptor
Category	ITE / Medical Power Supply
Input Voltage	100-240V~, 50/60Hz
I/P Amps (A)	0.3A
Wattage (W)	10.0
Vout Range (V)	5-5.2
Efficiency Level	VI
Ingress Protection	
Size (mm)	75*39.8*24.8

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August 17, 2019

ENCLOSURE



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August 17, 2019

RATING TABLE

Model Number	Voltage(V)	Amps(A)	Watts(W)	RFQ
GTM86100-1005-W2A-USB	5 V	2	10.00	RFQ

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August 17, 2019

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% measured at the end of a 1 meter USB cordset employing #20 Gauge conductors
04. Line Voltage Regulation: +/- 1% typical measured at the end of a 1 meter USB cordset employing #20 Gauge conductors
05. Output Ripple (Vp-p): 100 mVpp max, measured at the end of a 1 meter USB cordset employing #20 Gauge conductors. Measured at 20 MHz bandwidth with 0.1 uf ceramic capacitor in parallel with a low impedance 47 uf electrolytic capacitor connected at the end of the output connector.
06. Hold-up Time: 5 mS minimum
07. Inrush Current: 30A maximum @ 230Vac input
08. Energy Efficiency: Complies to Efficiency Level VI and ErP European Commission's Ecodesign Directive (2005/32/EC) / CoC Tier 2 Compliant

B) PROTECTION

01. Over-current protection: 4A maximum with auto-recovery function
02. Over-voltage protection: 10VDC maximum with zener clamp
03. Short-circuit protection: The adapter shall not be damaged by short the DC output to Ground.

C) SAFETY

01. Dielectric Withstand Voltage: Primary To Secondary: 4000VAC or 5656VDC for 3 seconds
02. Leakage Current: 50uA maximum, at nominal 240Vac input voltage
03. ESD Immunity per EN61000-4-2, ±8 kV contact, ±15 kV air, Perf Criteria A Standard.

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, 8kV Contact Discharge, 15kV air discharge
 - Radiated RF Immunity EN61000-4-3, 3V/m 80-2700MHz, 80% 1KHz AM.
 - EFT/Burst Immunity EN61000-4-4, 2kV/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, NA
 - Voltage Dip Immunity EN61000-4-11, Criteria

E) OTHER:

01. MTBF: 300,000 Hours @ 25°C ambient temperature
02. Operating Temperature: 0°C to 50°C ambient temperature
03. Operating Humidity: 20 ~ 85 % RH. non-condensing
05. Storage Temperature: -20°C to 60°C
06. Storage Humidity: 5 ~ 95 % RH. non-condensing
07. Cooling: Natural convection cooling
08. RoHS 2: Complies with EU 2011/65/EU China SJ/T 11364-2014

F) ENCLOSURE

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

F) OPTIONS:**PROPRIETARY INFORMATION**

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<http://en.globtek.com/datasheet/id/a000c00000PsvZa>

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August 17, 2019

01. Green Power On Indicator LED
02. NEMA 1-15P or European Schuko 7-16 AC Plug Configuration
03. Increased DC Output Voltage (up to 5.4V) to allow for long output cables
04. Special International Safety Approvals
05. Housing Color, special markings

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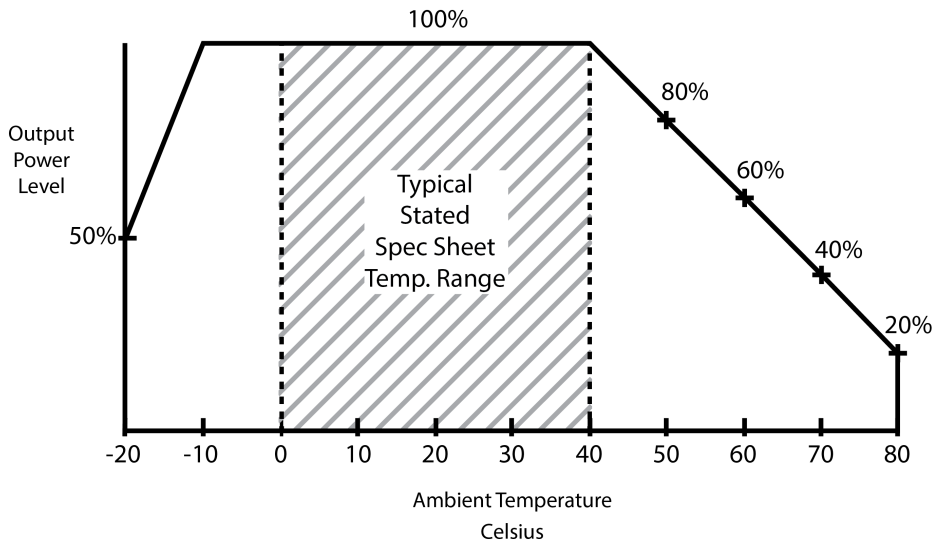
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August 17, 2019

DERATING CURVE

**Typical External
Power Supply Derating Curve**

(For Efficiency Level V and Efficiency Level VI Products)



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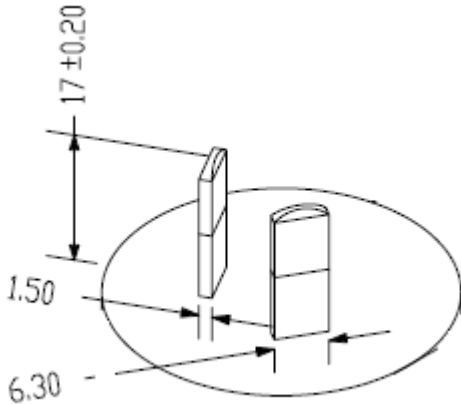
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Input Configuration

Description Australian AS 3112 configuration: SAA 2 pins Class II

Used in [Australia](#), [New Zealand](#), [Fiji](#), [Papua New Guinea](#) and [Tokelau](#), has two flat pins forming an inverted V-shape. These flat blades measure 6.3 by 1.5 mm with the Active and Neutral pins of 17 mm in length set 30° to the vertical on a nominal pitch of 13.7 mm. A standard power outlet in Australia provides a nominal voltage of 230 volts at a maximum of 10 amps and always includes an earth connection. As in the UK, its outlets are individually switched for extra safety. [Argentina](#) uses a similar plug, with pins 1 mm longer.



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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
No Logo Applicable	IEC 60335-1:2010+A1+A2
No Logo Applicable	CB for IEC 62368-1:2014 (Second Edition)
	CE Certification
	CHINA SJ/T 11364-2014, China RoHS Chart: http://en.globtek.com/globtek-rohs.php
	Declaration ДС № EA3C 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 	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)
	RCM certificate SAA-152394-EA; Australia and New Zealand Regulatory Compliance, Mark (http://rcm.standards.org.au/rcmfaq/rcmfaq.htm
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
	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