

GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GT-86120-1212-W2A, ICT/ITE Power Supply, Efficiency Level: USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782, Case Color/Style: GlobTek Black, Wall Plug-in, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50/60Hz, Australian Fixed, , Output Rating: 12.00W, 12.0V@1.0A, Pin Out: Center Positive (+V), symbol compliant with IEC 60417 symbol no. 5926, Output Configuration: 1830 mm, 22/2 Cond, UL 2468, Straight Female Barrel 5.5*2.5*14mm With internal Spring Clip and Locking Notch, Ferrite: None, GlobTek Black, GT Cord # C70320, Blades/Input Cord: Fixed Blades Australian 2 Conductor, Approvals:
	Model No. GT-86120-1212-W2A
	Part No./Ordering No. WR97E1000L14PFR6B Rev A

In Addition to GlobTek Inc.'s renewed ISO9001:2015 - Quality Management System Certification, GlobTek Inc. is now certified to:

ISO13485:2016 - Medical Devices Quality Management System Certification

ISO14001:2015 - Environmental Management System Certification

ISO Certificates are available online at <https://www.globtek.com/iso-certificates/>

The acceptance of this specification and use of the product described in this document indicates the acceptance and binding of the customer to Globtek TERMS AND CONDITIONS (attached to the end of this document), which supersede all other agreements, terms, and conditions (<https://www.globtek.com/terms-and-conditions/>).

The purchaser of this product (Customer) agrees that it is their sole responsibility to determine suitability/fitness of the product described in this specification for their application and to take precautions for protection against any hazards attendant to the handling and use of the product.

Footnote:

GlobTek Inc. will not be liable for the safety and performance of these power supplies/battery packs if unauthorized access and repair occurs. End user should consult applicable UL, CSA or EN standards for proper installation instruction.

Limitation of Use:

GlobTek products are intended for use with commercial, medical, and/or industrial equipment only. GlobTek product are not authorized for use as mission critical components in life support hazardous environment, nuclear or aircraft applications without prior written approval from the CEO of GlobTek Inc.

Contents of this document are subject to change without prior notice.

Customer Approval of Specification:

Please approve, sign and send back to GlobTek so we can complete order processing.

A delay in receipt of this form will delay delivery schedule.

Company Name:	Customer P/N:
Quote Number:	Date:
Authorized Representative Name:	Authorized Representative Signature:

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REVISION HISTORY

REV	DESCRIPTION	SUB	DATE	APPROVED
A	Initial release	QA	01/27/2023	QA

POWER SUPPLY INFORMATION

TYPE	Wall Plug-in
TECHNOLOGY	Regulated Switchmode AC-DC Power Supply AC Adaptor
CASE COLOR	GlobTek Black
NAMEPLATE RATED INPUT	100-240V- , 50/60Hz, 0.5A
INPUT CONFIG	Australian Fixed
WATTS	12.00
VOLTS OUT	12.0
CURRENT OUT (Amps)	1.0
BLADE/CORD INCLUDED	FBAust2 Fixed Blades Australian 2 Conductor
INGRESS PROTECTION	IPX0
GROUNDING CONFIGURATION	(F1) Floating output, Class II / double insulated
EFFICIENCY LEVEL	USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782
OUTPUT CONFIGURATION	1830 mm, 22/2 Cond, UL 2468, Straight Female Barrel 5.5*2.5*14mm With internal Spring Clip and Locking Notch, Ferrite: None, GlobTek Black, GT Cord # C70320
OVERMOLDED	Yes
OUTPUT CONNECTOR GENDER	Female
CONNECTOR PIN OUT	Center Positive (+V), symbol compliant with IEC 60417 symbol no. 5926
LABEL SPECS	Standard GT,L-1186
SPECIAL BARCODE LABEL MATERIAL	No
PACK SPEC	Standard WPI GT-86120 AU fixed,Individually Box
USER MANUAL	

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Notes/Modifications/Customizations (notes in this section supersede the values shown in the standard spec)

DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE

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ELECTRICAL SPECIFICATIONS

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- 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: +/- 5%
04. Ripple and Noise (Vp-p): 100 mVp-p maximum, At 20 MHz, and output parallel with 0.1uF & 47uF capacitors to ground. Temperature at 25 °C, and nominal input voltage
05. Efficiency: Compliant with Efficiency Level VI and ErP European Commission's Ecodesign Directive (2005/32/EC) / CoC Tier 2 Compliant
06. No Load Standby Power: <0.075W @ 230Vac
07. Turn-ON Delay: 3 Seconds maximum at nominal input voltage
08. Rise Time: 100mS maximum at nominal input voltage
- B) PROTECTION
01. Over-Voltage: 10VDC maximum
02. Over current protection: 4A maximum with auto-recovery function
03. Short Circuit: Short circuit protection is to be included in the construction of the adaptor. The adaptor is designed to withstand continuous current of a short circuit on the output. The adaptor will be short circuit tolerant for an indefinite period.
- C) SAFETY
01. Dielectric Withstand Voltage: 3000VAC 10mA 1minute or 4242VDC 10mA 1minute from primary to secondary
02. Leakage current: 0.25mA maximum, at nominal AC input voltage and frequency
03. Static Discharge Immunity of 4kV Contact Discharge, 8kV air discharge.
- 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 50°C ambient temperature (RFP7139)
03. Humidity: 5% 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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TO ADDRESS SYSTEM-LEVEL EMI CONCERNS, FERRITE CHOKES/BEADS MAY BE ADDED/REVISED UPON REQUEST. A SAMPLE KIT OF GLOBTEK'S STANDARD FERRITES IS AVAILABLE UNDER GLOBTEK P/N: EMI-MITIGATION-KIT1

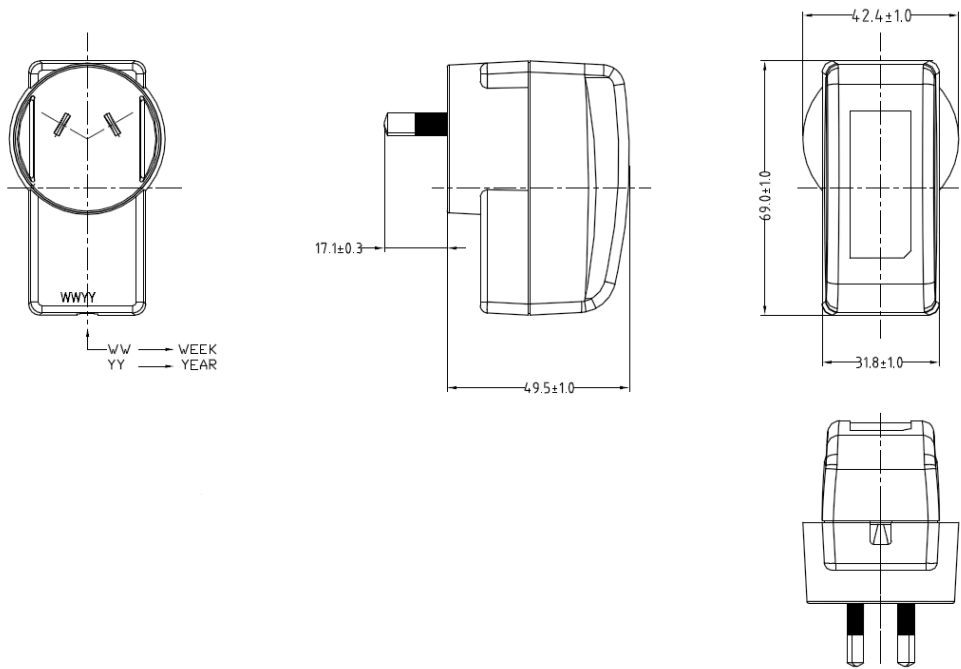
FOR ADDITIONAL INFORMATION, PLEASE READ OUR WHITE PAPER AT: <https://r.globtek.info/3QeaqtD>

INGRESS PROTECTION: IPX0

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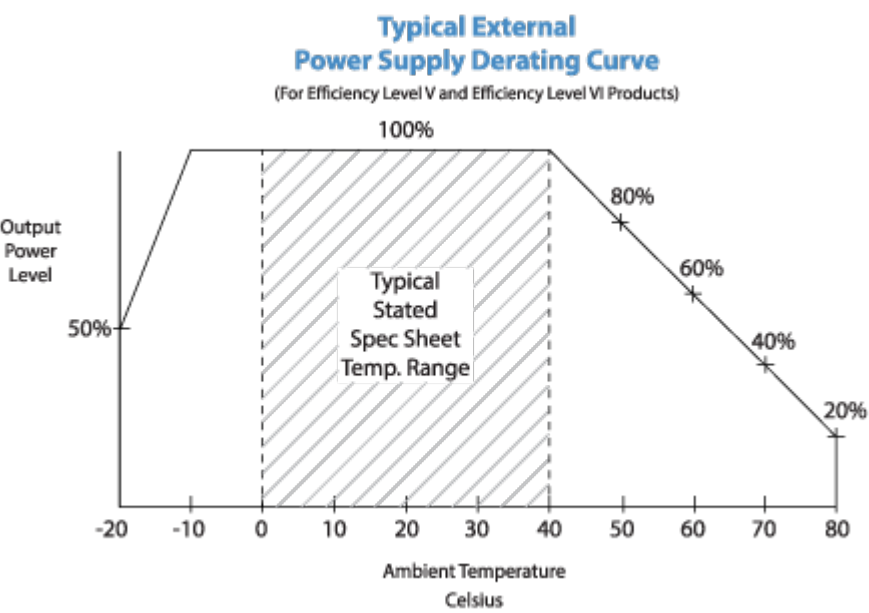
3D File Download https://www.globtek.com/file/dl/gt-86120-wwwv-x_x-w2a_asm.stp

Mechanical drawing



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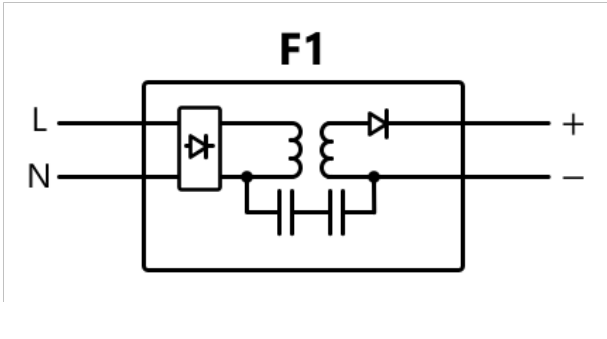
DERATING CURVE



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INPUT CONFIGURATION

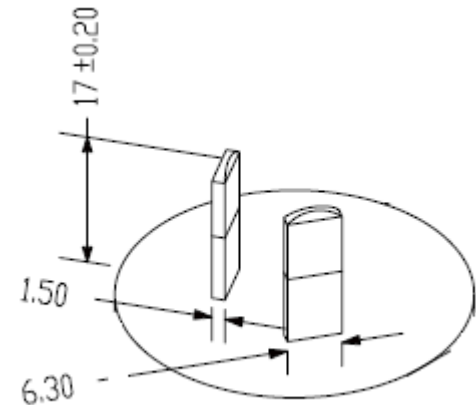
(F1) Floating output, Class II / double insulated



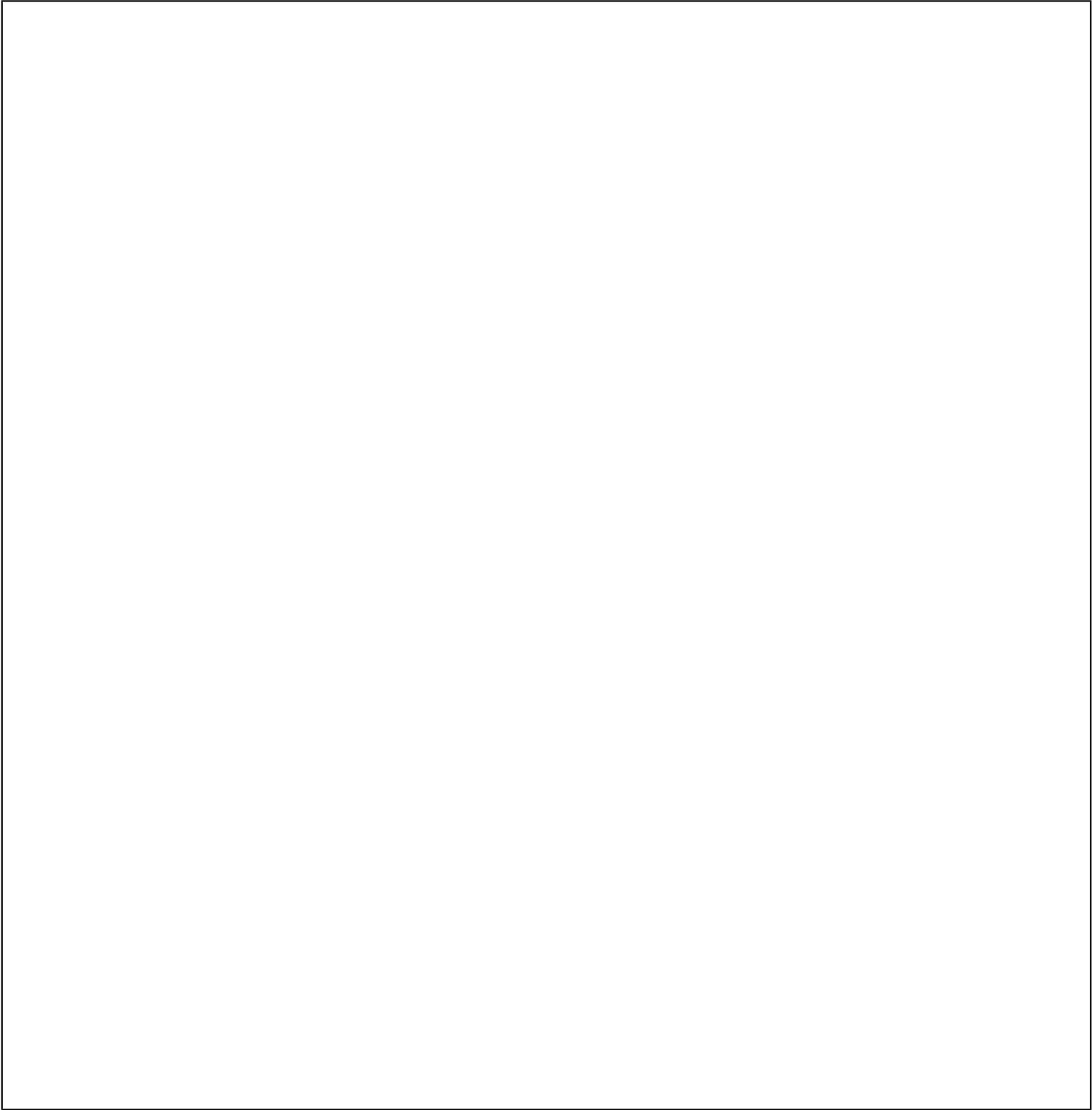
[Alternate grounding configurations](#) available upon request.

Blades/Cord Included:FBAust2:Fixed Blades Australian 2 Conductor
Australia 2 Prong
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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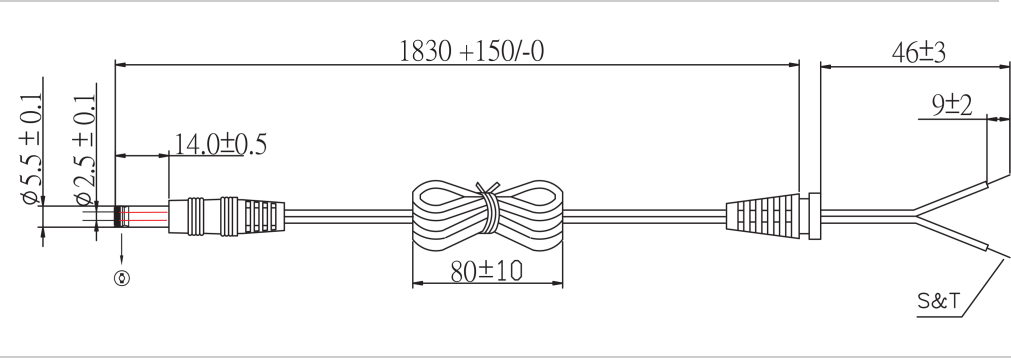


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OUTPUT CORD AND CONNECTOR:
L14Straight/C70320

ACTUAL CONNECTORS, OVERMOLDS, FERRITES MAY VARY SLIGHTLY FROM THE PICTURE BELOW

CABLE TYPE	UL 2468
CABLE LENGTH (mm)	1830
CABLE TOLERANCE (mm)	+150/-0
WIRE GAUGE (AWG)	22
CONDUCTORS	2
HANK DIMENSION (mm)	80+/-10
CABLE / CONNECTOR OVERMOLD COLOR	GlobTek Black
FERRITE TYPE AND DIMENSION	None
FERRITE NUMBER OF TURNS(Definition)	N/A
FERRITE DIMENSION FROM STRAIN RELIEF	N/A
FERRITE DIMENSION FROM PLUG	N/A
PLUG TYPE	Straight Female Barrel 5.5*2.5*14mm With internal Spring Clip and Locking Notch
OUTPUT CONNECTOR GENDER	Female
OVERMOLDED	Yes
OVER MOLD ORIENTATION	Straight
CONNECTOR PIN OUT	Center Positive (+V), symbol compliant with IEC 60417 symbol no. 5926



ADDITIONAL OUTPUT PLUG OPTIONS ARE AVAILABLE AT <https://www.globtek.com/en/connectors>

STANDARD PLUGS AND CONNECTORS CAN BE SEEN ONLINE AT <https://www.globtek.com/en/connectors>

CALCULATE VOLTAGE REGULATION/DROP WITH OUR ONLINE CALCULATOR: <https://www.globtek.com/r2/Ptqjil>

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OUTPUT CONNECTOR HOOK UP

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FOR ADDITIONAL INFORMATION, PLEASE READ OUR WHITE PAPER AT:
<https://www.globtek.com/en/technical-articles/ferrite-kit-radiated-emi-suppression-kit-for-globtek-power-supplies-cable-assemblies>

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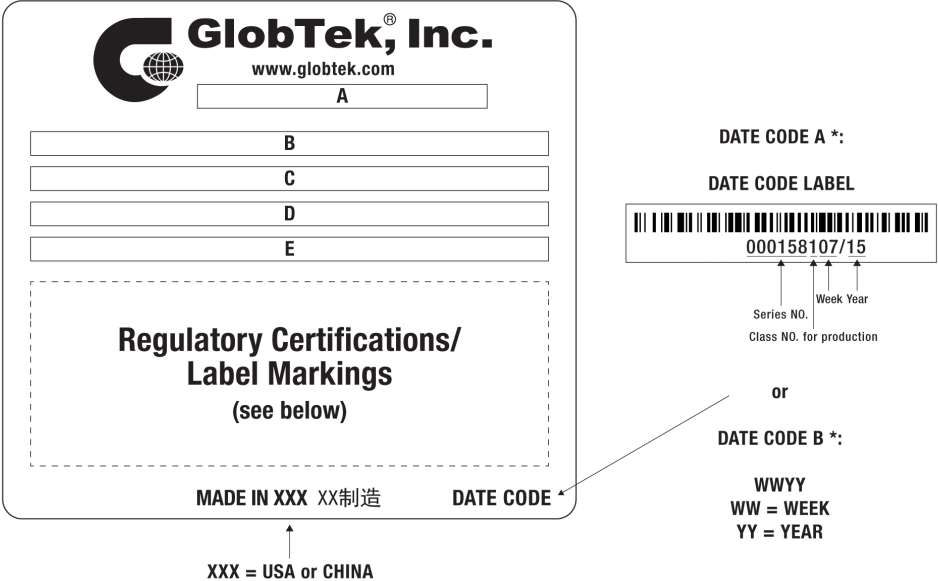
LABEL:L-1186

LABEL P/N	Standard GT
MATERIAL	Flat Thermal Transfer, Imprintable, Polyester Label and/or Pad Printed and/or Molded, and/or Laser Engraved in the case
BACKGROUND COLOR	Black if housing is Black, White or Silver if housing is White or Gray.
TEXT COLOR	White or Silver if label is Black Background for Black housing. Black if label is White or Silver background and Housing is White or Gray.
LABEL WIDTH (mm)	39.7
LABEL HEIGHT (mm)	16.2
SPECIAL BARCODE LABEL MATERIAL	No

Below is the minimum information which will appear on the label. NOTE: in the logo area additional/actual positioning of symbols and text is subjected to change as per agency updates/requirements or additional model approvals become available.

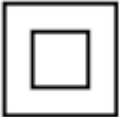
Regulatory certifications/label markings may be in logo area on the label or molded into the case housing outside the label area.

Information will be shown via label and/or pad printed and/or molded and/or laser engraved in the case. * Date code markings at GlobTek option



A=ICT/ITE Power Supply
B=P/N: (料号) WR97E1000L14PFR6B
C=Model (型号) GT-86120-1212-W2A
D=Input (输入)100-240V- , 50/60Hz, 0.5A
E=Output (输出)12.0 V 1.0 A, 12.00W

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AGENCY ONLINE DOCUMENTS	http://www.globtek.info/certs/GT-86120-WWVV-W2Z/
CE EC-Declaration for Medical	Contact GlobTek for more information
CE EC-Declaration for Industrial/Commercial/ITE	https://cs.globtek.info/ec_declaration_product?id=01t3a000005gwcD&i=2
CE EC-Declaration for Household	Contact GlobTek for more information
UKCA-Declaration for Medical	Contact GlobTek for more information
UKCA-Declaration for Industrial/Commercial/ITE	https://cs.globtek.info/ukca_declaration_product?id=01t3a000005gwcD&i=2
UKCA-Declaration for Household	Contact GlobTek for more information
Morocco SDoC Declaration	https://cs.globtek.info/Morocco_SDoC_Declaration?id=a0Oa000000OjT5tEAF
RoHS/RoHS3 Declaration	https://www.globtek.com/pdf/rohs_cert/01t3a000005gwcDAAQ
REACH Declaration	https://www.globtek.com/pdf/iso_certificates/REACH.pdf
Conflict Minerals Declaration	https://www.globtek.com/pdf/conflict-minerals.pdf
Prop 65 Statement	https://www.globtek.com/prop-65-statement.pdf
IPXY rating is based on 3rd party testing and customers should check suitability and test system level IPXY rating before ordering.	
Regulatory Certifications/Label Markings Below follows a link to the latest regulatory certifications and marks for this specific product. National standards as well as certification schemes are constantly changing and so is the set of certification marks and symbols applicable to this product. Various standards, marks and symbols, and certificates are subject to change at any time without notice. Additional standards or unique country certifications are available upon request. Please contact Globtek to request a quotation. LATEST PRODUCT/MODEL CERTIFICATIONS: https://www.globtek.com/ds/aW64Hthqph/nVTqBEoyXZS.html	
AGENCY ONLINE DOCUMENTS	http://www.globtek.info/certs/GT-86120-WWVV-W2Z/
	(F1) Floating output, Class II / double insulated
	Center Positive (+V), symbol compliant with IEC 60417 symbol no. 5926

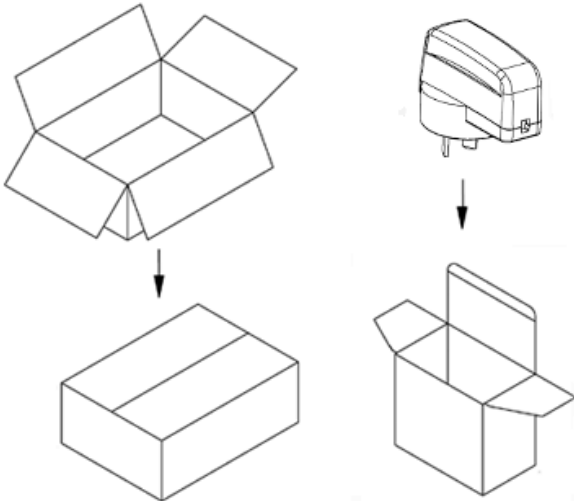
GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GT-86120-1212-W2A, ICT/ITE Power Supply, Efficiency Level: USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782, Case Color/Style: GlobTek Black, Wall Plug-in, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V- , 50/60Hz, Australian Fixed, , Output Rating: 12.00W, 12.0V@1.0A, Pin Out: Center Positive (+V), symbol compliant with IEC 60417 symbol no. 5926, Output Configuration: 1830 mm, 22/2 Cond, UL 2468, Straight Female Barrel 5.5*2.5*14mm With internal Spring Clip and Locking Notch, Ferrite: None, GlobTek Black, GT Cord # C70320, Blades/Input Cord: Fixed Blades Australian 2 Conductor, Approvals:	
	Model No. GT-86120-1212-W2A	
	Part No./Ordering No. WR97E1000L14PFR6B	Rev A

PACKAGING

Packing Spec P/N	Standard WPI GT-86120 AU fixed,Individually Box
Box Qty	120
Gift Box Size (mm)	90*54*76
Gift Box Color	White
Master Carton Size (mm)	470 x 345 x 340
Master Carton Cubic Volume (m³)	0.06
Master GW (Kg)	15.6 kg
BLADES INCLUDED	FBAust2: Fixed Blades Australian 2 Conductor
BLADE/CORD INSTALLED	:
USER MANUAL*	
USER MANUAL WEB LINK	

* This specification sheet is considered the user manual for all applications. It is expected that the buyer of this product will use it to formulate their own user manual for their end product and a user manual specifically for the power adapter is not usually required. If a user manual is not specifically listed above then none will be provided with this unit.

Power Supply & Blade(s) packaged together; see above "**Blades Included**" for actual blades included in the gift box. If specific packaging is required, this section must specify all requirements and note "no exceptions". If this section does not specify packaging, it is subject to change without notice at GlobTek's discretion



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INSTRUCTIONS TO THE OEM SYSTEMS ENGINEER

It is the responsibility of the OEM systems engineer to provide the end system user instructions and warnings for the use of this product in the end system.

If an input cord is required for this product, AC Mains voltage should be provided to the power supply by a power supply cord approved to the national standards of the country in which it will be used.

This product is not designed to be repaired. No serviceable parts inside. A blown internal fuse is an indication of catastrophic failure of circuit component(s). If a Failure Analysis is required for a failed power supply/battery charger, please return the damaged unit to GlobTek for an accurate determination of the root cause of the failure.

EMC Compliance of the complete OEM product, including the GlobTek power supply/battery charger needs to be verified by the OEM systems engineer.

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INSTRUCTION SHEET

N/A

GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GT-86120-1212-W2A, ICT/ITE Power Supply, Efficiency Level: USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782, Case Color/Style: GlobTek Black, Wall Plug-in, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V- , 50/60Hz, Australian Fixed, , Output Rating: 12.00W, 12.0V@1.0A, Pin Out: Center Positive (+V), symbol compliant with IEC 60417 symbol no. 5926, Output Configuration: 1830 mm, 22/2 Cond, UL 2468, Straight Female Barrel 5.5*2.5*14mm With internal Spring Clip and Locking Notch, Ferrite: None, GlobTek Black, GT Cord # C70320, Blades/Input Cord: Fixed Blades Australian 2 Conductor, Approvals:	
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