

GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GT-21097-5012, ICT/ITE Power Supply, Efficiency Level: N/A, Case Color/Style: GlobTek Black, Desktop/External, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C14, , Output Rating: 30.00W, 12.0V@2.5A, Pin Out: PIN 1: N/C, PIN 2 & 4: WHITE (+V), PIN 3 & 5: SHIELD(GROUND), Output Configuration: 1830 mm, 18/1C + Shield Cond, UL 1185, 5 Pin Mini DIN Plug or Equal, Ferrite: None, GlobTek Black, GT Cord # C0464, Blades/Input Cord: Not Applicable, Approvals:
	Model No. GT-21097-5012
	Part No./Ordering No. TR9CE2500N05-Y(R)
	Rev M1

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
M1	Update to SF format, update approvals on the label	QA	04/06/2021	QA
M	REVISE LABEL, RFS, 17047, SO	QA	09/14/2009	QA
L	CHANGE CURRENT TO 2.5A, RFS, 13814, FS	QA	06/05/2008	QA
K	CHANGE O/P CORD INFORMATION, RFS, 11177, KSK	QA	05/27/2007	QA
I	ADD CH. ROHS, RFS, 10926, KSK	QA	05/09/2007	QA
G	ADD DRAWING OF O/P CONNECTOR, RFS, 5941, SO	QA	04/11/2005	QA
H	ADD TOLERANCE OF O/P CONNECTOR, RFS, 5963, SO	QA	04/11/2005	QA
F	CORRECT LABEL, REMOVE 'T3', RFS.4624, DMR	QA	09/28/2004	QA
E	CORRECT PINOUT DWG, RFS.4390, SO	QA	08/30/2004	QA
D	REDRAW, RFS.2750, SO	QA	12/24/2003	QA
C	UPDATE OUTPUT CONNECTOR & LABEL	QA	03/11/2003	QA
B	UPDATE OUTPUT CORD	QA	07/24/2002	QA
A	INITIAL RELEASE	QA	05/28/2002	QA

POWER SUPPLY INFORMATION

TYPE	Desktop/External
TECHNOLOGY	Regulated Switchmode AC-DC Power Supply AC Adaptor
CASE COLOR	GlobTek Black
NAMEPLATE RATED INPUT	100-240V~, 50-60 Hz, 1.6A Max.
INPUT CONFIG	IEC 60320/C14
WATTS	30.00
VOLTS OUT	12.0
CURRENT OUT (Amps)	2.5
BLADE/CORD INCLUDED	N/A Not Applicable
BLADE/CORD INSTALLED	N/A :Not Applicable
INGRESS PROTECTION	Indoor Use
GROUNDING CONFIGURATION	(E1) Earthed output
EFFICIENCY LEVEL	N/A
OUTPUT CONFIGURATION	1830 mm, 18/1C + Shield Cond, UL 1185, 5 Pin Mini DIN Plug or Equal, Ferrite: None, GlobTek Black, GT Cord # C0464
OVERMOLDED	Yes
OUTPUT CONNECTOR GENDER	Male
CONNECTOR PIN OUT	PIN 1: N/C, PIN 2 & 4: WHITE (+V), PIN 3 & 5: SHIELD(GROUND)
LABEL SPECS	Standard GT,L-1186
SPECIAL BARCODE LABEL MATERIAL	No
PACK SPEC	Standard DT, 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

- 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: +/-5% measured at the output connector
 - 04. Line Voltage Regulation: +/- 1% typical measured at full load
 - 05. Output Ripple (Vp-p): +/- 1% of output voltage, Vp-p, typical
 - 06. Turn-ON/OFF: 5% maximum,1 mS typical recovery time for 25% step load
 - 07. Turn-ON Delay: 1 Sec, typical
 - 08. Hold-Up Time: 10 mS typical @ nominal input voltage and full load
 - 09. Inrush Current: 20A maximum cold start @ 240Vac input
 - 10. Switching Frequency: 100 KHz typical, varies with line and load

- B) PROTECTION
- 01. Over-Voltage: limited via crowbar method
 - 02. Short Circuit: Hiccup with auto recovery upon removal of short
 - 03. Over-load: Hiccup with auto recovery
 - 04. Input Protection: Input line

- C) SAFETY
- 01. Dielectric Withstand Voltage: 4242 Vdc from primary to secondary (for Class II with functional ground)
 - 02. Touch Current: <0.25mA @ 240Vac input voltage
 - 03. Earth Leakage Current: <3.5 mA at 240Vac input voltage
 - 04. Earth continuity test:<0.1 Ohm or < 0.2 Ohm when with a non-detachable Power Supply cord, Class I Only
 - 05. ROHS 2: Complies with EU 2011/65/EU and China SJ/T 11363-2006

- D) 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: -10°C to 80°C
 - 05. Cooling: Convection

- E) ENCLOSURE
- 01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
 - 02. Size: 118 x 60 x 33 ± 0.5 mm
 - 03. Markings: Label and/or Pad Printed and/or Molded in the case
 - 04. Green LED for indicating Power Out

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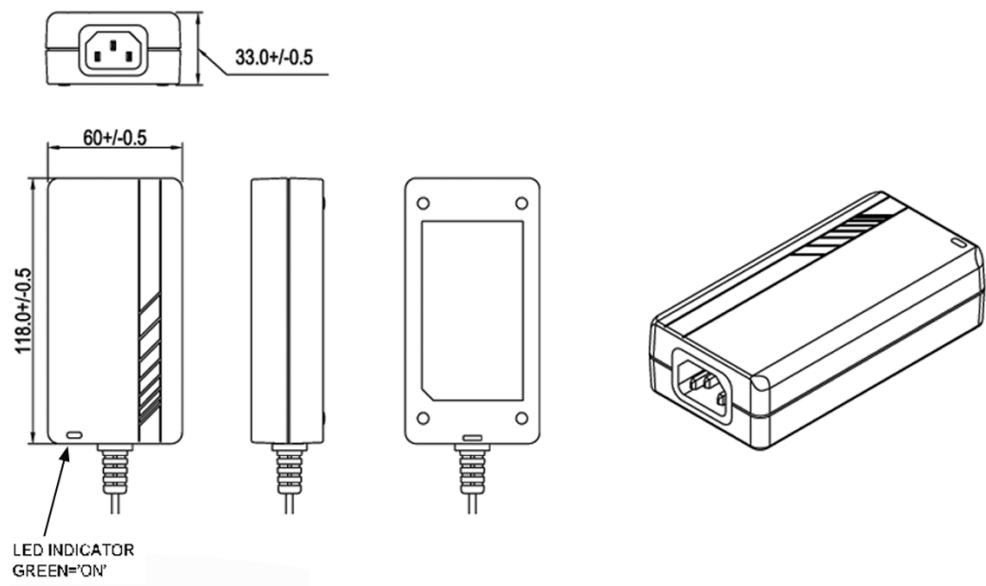
TO ADDRESS SYSTEM-LEVEL EMI CONCERNS, FERRITE CHOKES/BEADS MAY BE ADDED/REVISED UPON REQUEST. A SAMPLE KIT OF GLOBTEK’S STANDARD FERRITES IS AVAILABLE UNDER GLOBTEK P/N: EMI-MITIGATION-KIT1

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

INGRESS PROTECTION: Indoor Use

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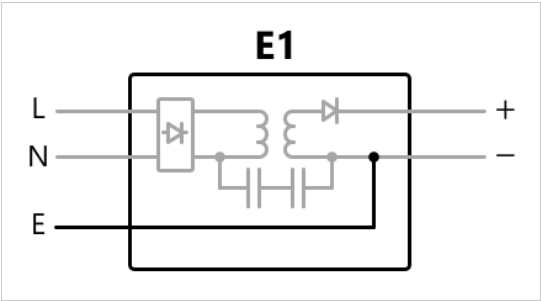
Mechanical drawing



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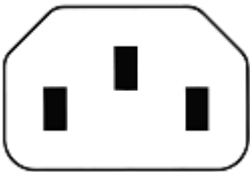
INPUT CONFIGURATION

(E1) Earthed output



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

Blades/Cord Included:N/A:Not Applicable
Blades/Cord Installed:N/A:Not Applicable
T3 Inlet (IEC 60320/C14)
IEC 60320/C14 AC Inlet Connector, Class I, Earth Ground



Mates with IEC 60320/C13 Plug

Optional Locking IEC60320 Receptable and cord option available on some models by request.:



[Standard International IEC 320/C13 Cordsets](#)

Below are standard cordsets which are "not included" (unless stated above); these can be purchased separately or packaged with the power supply. Contact your Sales Engineer if the style required is not shown below. Many more available in different lengths, colors or cable material.

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Stock Power Supply Cords

Part Number/ Link	Country	Plug	Termination	Length (mm)	(Ft)
3021457F701(R)	N. American (Type B)	NEMA 5-15P	IEC 320/C13	2150	7
1191068F0701(R)	N. American (Type B)	NEMA 5-15P Hospital	IEC 320/C13	2459	8
2194272M5701-T(R)	Argentina (Type I)	IRAM 2073	IEC 320/C13	2500	8
5502022M5701A(R)	Australian (Type I)	AS3112 / 3 PRONG	IEC 320/C13	2500	8
204B4272M5701(R)	Brazil (Type N)	BRAZIL	IEC 320/C13	2500	8
6023602M5701(R)	China (Type I)	CCC GR2099	IEC 320/C13	2500	8
G8014272M5701(R)	Danish (Type K)	AFSNIT SECTION 107-2-D1	IEC 320/C13	2500	8
23144272M5701-T(R)	Europe (Type E)	CEE 7/7	IEC 320/C13	2500	8
23134272M5701EUKR(R)	Europe/Korea Combo (Type E)	CEE 7/7 / KSC8305	IEC 320/C13	2500	8
205IN4272M5701(R)	India (Type D)	India IS 1293 (also known as IA16A3 or BS546)	IEC 320/C13	2500	8
208IN4272M5701(R)	India (Type M)	India IS 1293 (also known as IA16A3 or BS546)	IEC320/C13	2500	8
377C4272M5701(R)	Israel (Type H)	ISL 377C	IEC 320/C13	2500	8
23024272M5701(R)	Italy (Type L)	CEI 23-16/VII	IEC 320/C13	2500	8
3003339F701(R) [3x1.25mm2]	Japan (Type B)	JIS 8303 / 3 PINS	IEC 320/C13	2500	8
3003068F2701-HK(R) [3 x 2.0mm2]					
302J115J6F0701J(R)	North America / Japan (Type B – 12A)	NEMA 5-15P (cULus approved), Japan JIS C 8303 (PSE Approved)	IEC 320/C13	1830	6
302J104J6F0701J(R)	North America / Japan (Type B – 15A)	NEMA 5-15P (cULus approved), Japan JIS C 8303 (PSE Approved)	IEC 320/C13	1830	6
302JT104J9F0701JT(R)	North America / Japan / Taiwan (Type B – 15A)	NEMA 5-15P (cULus approved), Japan JIS C 8303 (PSE Approved), Taiwan CNS 6797 (BSMI Approved)	IEC 320/C13	2800	9
2313K3432M5701(R)	Korea (Type F)	KS C 8305	IEC 320/C13	2500	8
5804272M5701(R)	Russia (Type F)	GOST 7396	IEC 320/C13	2500	8
2084272M5701(R)	South Africa (Type M)	South Africa SABS164-1 (16A type)	IEC 320/C13	2500	8
23214272M5701(R)	Switzerland (Type J)	SEV 1011	IEC 320/C13	2500	8
3003322M5701(R)	Taiwan (Type B)	BSMI	IEC 320/C13	2500	8
6363762M5701(R)	Thailand (Type O)	TIS 166-2549	IEC 320/C13	2500	8
PZ0800100-2M5BK13H(R)	UK, Hong Kong, Singapore, Gulf States (Type G)	BS 1363A	IEC 320/C13	2500	8
7055002M5701A(R)	International	IEC 320 C14-C13	IEC 320/C13	2500	8

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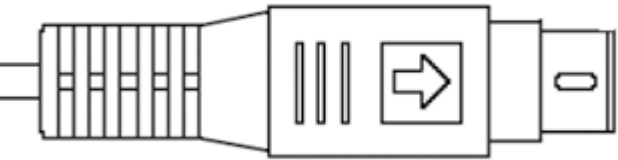
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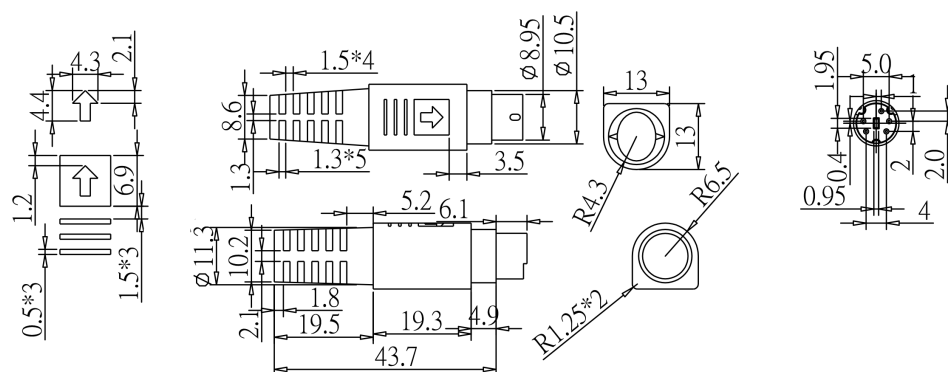
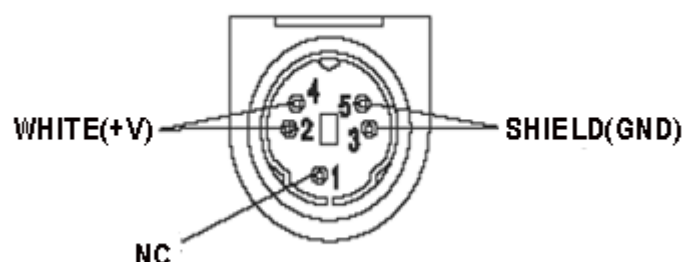
OUTPUT CORD AND CONNECTOR: MS5/C0464

ACTUAL CONNECTORS, OVERMOLDS, FERRITES MAY VARY SLIGHTLY FROM THE PICTURE BELOW	
CABLE TYPE	UL 1185
CABLE LENGTH (mm)	1830
CABLE TOLERANCE (mm)	+100/-0
WIRE GAUGE (AWG)	18
CONDUCTORS	1C + Shield
HANK DIMENSION (mm)	120+/-15
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	5 Pin Mini DIN Plug or Equal
OUTPUT CONNECTOR GENDER	Male
OVERMOLDED	Yes
OVER MOLD ORIENTATION	Straight
CONNECTOR PIN OUT	PIN 1: N/C, PIN 2 & 4: WHITE (+V), PIN 3 & 5: SHIELD(GROUND)



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FRONT VIEW



UNIT	mm
TOLERANCES	
UNLESS OTHERWISE SPECIFIED	
LINEAR	0.0 +/- 0.1
	0.00 +/- 0.01
	0.000 +/- 0.005
ANGLE	+/- 2 degree

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/PtgjL>

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OUTPUT CONNECTOR HOOK UP

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://www.globtek.com/en/technical-articles/ferrite-kit-radiated-emi-suppression-kit-for-globtek-power-supplies-cable-assemblies>

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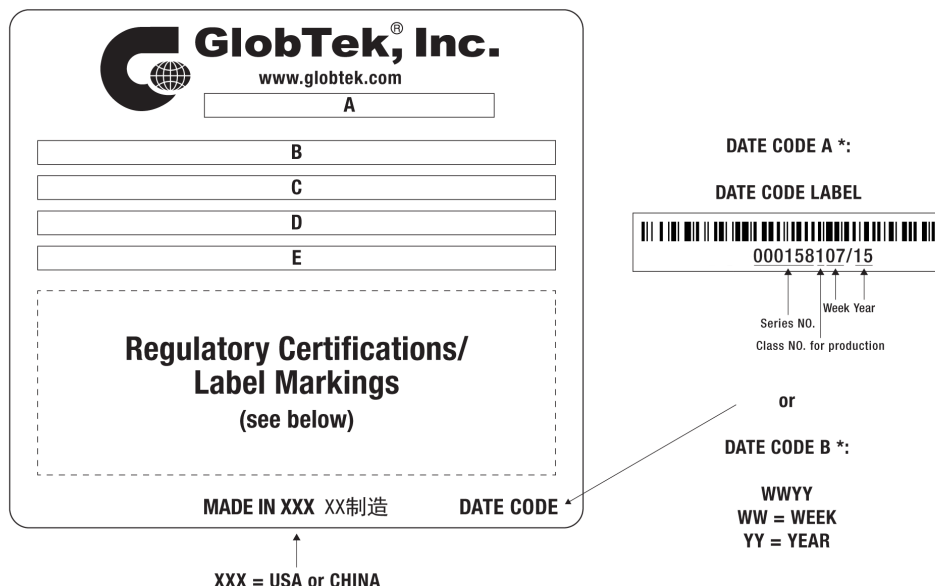
LABEL:L-1186

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)	44.5
LABEL HEIGHT (mm)	79.5
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) TR9CE2500N05-Y(R)
C=Model (型号) GT-21097-5012
D=Input (输入)100-240V~, 50-60 Hz, 1.6A Max.
E=Output (输出)12.0 V 2.5 A, 30.00W

GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GT-21097-5012, ICT/ITE Power Supply, Efficiency Level: N/A, Case Color/Style: GlobTek Black, Desktop/External, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C14, , Output Rating: 30.00W, 12.0V@2.5A, Pin Out: PIN 1: N/C, PIN 2 & 4: WHITE (+V), PIN 3 & 5: SHIELD(GROUND), Output Configuration: 1830 mm, 18/1C + Shield Cond, UL 1185, 5 Pin Mini DIN Plug or Equal, Ferrite: None, GlobTek Black, GT Cord # C0464, Blades/Input Cord: Not Applicable, Approvals:	
	Model No. GT-21097-5012	
	Part No./Ordering No. TR9CE2500N05-Y(R)	Rev M1

AGENCY ONLINE DOCUMENTS	http://www.globtek.info/certs/GT-21097
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=01t30000002p9lg&i=3
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=01t30000002p9lg&i=3
UKCA-Declaration for Household	Contact GlobTek for more information
Morocco SDoC Declaration	https://cs.globtek.info/Morocco_SDoC_Declaration?id=a0O30000007P7YZEA0
RoHS/RoHS3 Declaration	https://www.globtek.com/pdf/rohs_cert/01t30000002p9lgAAI
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.

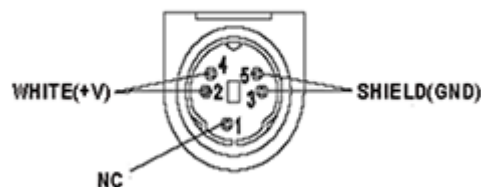
LATEST PRODUCT/MODEL CERTIFICATIONS: <https://www.globtek.com/ds/F2nAampTQL/N5jkPDyJkR2.html>

AGENCY ONLINE DOCUMENTS <http://www.globtek.info/certs/GT-21097>



(E1) Earthed output

FRONT VIEW



PIN 1: N/C, PIN 2 & 4: WHITE (+V), PIN 3 & 5: SHIELD(GROUND)

PROPRIETARY INFORMATION

PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC. © GlobTek, Inc. 2012 - 2024
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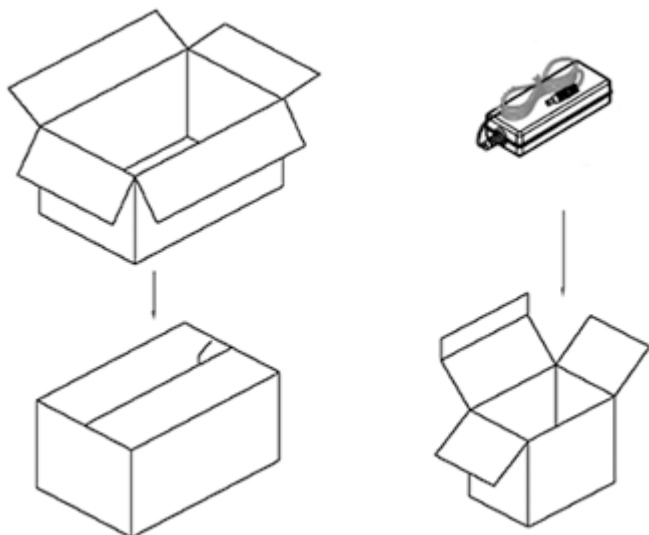
GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GT-21097-5012, ICT/ITE Power Supply, Efficiency Level: N/A, Case Color/Style: GlobTek Black, Desktop/External, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C14, , Output Rating: 30.00W, 12.0V@2.5A, Pin Out: PIN 1: N/C, PIN 2 & 4: WHITE (+V), PIN 3 & 5: SHIELD(GROUND), Output Configuration: 1830 mm, 18/1C + Shield Cond, UL 1185, 5 Pin Mini DIN Plug or Equal, Ferrite: None, GlobTek Black, GT Cord # C0464, Blades/Input Cord: Not Applicable, Approvals:		
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PACKAGING

Packing Spec P/N	Standard DT, Individually Box
Packing Quantity/Multiple/MPQ	60
Gift Box Size (mm)	147*100*33
Gift Box Color	White
Master Carton Size (mm)	465 x 415 x 225
Master Carton Cubic Volume (m³)	0.04
Master GW (Kg)	19.6 kg
BLADES INCLUDED	N/A: Not Applicable
BLADE/CORD INSTALLED	N/A: Not Applicable
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.

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

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