GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GTM961600P16019-T2, Medical/ICT/ITE/Household use Power Supply, Efficiency Level: USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782, Case Color/Style: GlobTek Black, Desktop/External, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C8, , Output Rating: 160.00W, 19.0V@8.42A, Pin Out: Pin 2,4: +V, Pin 1,3, Shell: -V, Output Configuration: 1200 mm, 14/1C + Shield Cond, UL 1185, 4 Pin Locking Kycon or Equal, Ferrite: None, GlobTek Black, GT Cord # C21421, Blades/Input Cord: (Order Separately), Approvals:	
	Model No. GTM961600P16019-T2	
	Part No./Ordering No. TR9KZ8421YL4IMR6B	Rev B

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
B	Update O/P cord to UL1185 14AWG (from YL4/C21419 to YL4/C21421)	QA	12/17/2018	QA
A	Initial release	QA	07/08/2018	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, 2.2A
INPUT CONFIG	IEC 60320/C8
WATTS	160.00
VOLTS OUT	19.0
CURRENT OUT (Amps)	8.42
BLADE/CORD INCLUDED	None (Order Separately)
BLADE/CORD INSTALLED	None :(Order Separately)
INGRESS PROTECTION	IP41
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	1200 mm, 14/1C + Shield Cond, UL 1185, 4 Pin Locking Kycon or Equal, Ferrite: None, GlobTek Black, GT Cord # C21421
OVERMOLDED	Yes
OUTPUT CONNECTOR GENDER	Male
CONNECTOR PIN OUT	Pin 2,4: +V, Pin 1,3, Shell: -V
LABEL SPECS	Standard GT,L-1186
SPECIAL BARCODE LABEL MATERIAL	No
PACK SPEC	Standard DT, Cellular packaging, User manual
USER MANUAL	809-DESKTOPUSERMANUAL on A4 paper

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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
    90-264Vac range @ 100% of rated load current
    85-264 Vac range @ 90% of rated load current
02. Input Frequency: Specified 47-63 Hz, Nameplate rated 50/60Hz
03. Power Factor: 0.90 minimum @ 230Vac, 0.97 minimum @ 115Vac
04. Output Regulation: +/- 4% max measured at the output connector
05. Line Voltage Regulation: +/- 0.5% typical measured at full load
06. Green Power On Indicator LED
07. Output Ripple (Vp-p): 1% or 200 mV whichever is greater, 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 at nominal line
08. Turn-ON/OFF Overshoot: 5% maximum, 1 mS typical recovery time for 25% to 50% step load
09. Turn-ON Delay: 1 second typical
10. Hold-Up Time: 20 mS minimum
11. Inrush Current: 30A maximum at 115Vac input and 60A maximum at 230Vac input
12. Switching Frequency: Varies from 25KHz to 125KHz
13. Efficiency: Compliant with DoE Efficiency Level VI standard and CoC Tier 2
14. No Load Standby Power: <0.15 W @ 230Vac

B) PROTECTION

01. Input Protection: Input line fusing and 300Vac rated MOV
02. Short Circuit/ Overload: Electronically Protected unit will auto recover upon removal of fault
    Output Current Limit: Current limited to less than 240W / Vnom and 18A for low voltage models
    (Vnom = nominal rated output voltage)
03. Over-Temperature: Latching Electronic Overtemperature protection. Cycle AC OFF to reset.
04. Output Over-Voltage: 110% to 135% of nominal output voltage under full load condition, and less than 60V max. Latching protection, cycle AC OFF to reset.

C) SAFETY

01. Dielectric Withstand Voltage: 4000Vac or 5656Vdc from input to output,
On Class I models, 3000Vac or 4242Vdc from input to earth
02. Earth Leakage Current: Class I models < 300uA, N/A for Class II models
03. Touch Current: Class I models < 20uA, Class II models < 70uA
04. Output Isolation Options:
  a) C8 or C18 Inlet, Class II
  b) C6 or C14 Inlet, Class II FE, Output Isolated from Earth contact
  c) C6 or C14 Inlet, Class I, Output negative directly attached to Earth contact
05. Earth Continuity Test: < 0.1 Ohm between Earth Pin at AC input and PCB termination point (Class I models only)
06. Means of Protection: 2 x MOPP
07. Primary to Secondary Bridging Capacitance: Two IEC60384-14 certified Y1 type capacitors in series
08. Compliant Standards: See listings at end of this drawing for specifics

D) EMC

EN 60601-1-2, 4th edition
Emissions, per EN 55032, EN 61000-6-3, EN 61000-6-4, CISPR11 and CISPR22

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Conducted Emissions: Class B, FCC Part 15, Class B
Radiated Emissions: Class B, FCC Part 15, Class B
Line Frequency Harmonics EN61000-3-2, Class A
Voltage Fluctuations/Flicker EN61000-3-3

Immunity, per EN 55024, EN 61000-6-1, EN 61000-6-2
Static Discharge Immunity EN61000-4-2, 10kV Contact Discharge, 18kV air discharge
Radiated RF Immunity EN61000-4-3, 10V/m 80-2.7GHz, 80% 1KHz AM.
EFT/Burst Immunity EN61000-4-4, 4kV/100kHz.
Line Surge Immunity EN61000-4-5, 2kV differential, 4kV common-mode
Conducted RF Immunity EN61000-4-6, 3Vrms, 80% 1KHz AM
Power Frequency Magnetic Field Immunity EN61000-4-8, 3A/m
Voltage Dip Immunity EN61000-4-11, Criteria

E) OTHER:
01. MTBF: 1,000,000 Hours @ 40°C ambient temperature, Full Load
02. Operating Temperature: -10°C to 40°C ambient temperature with full load
Regarding Operating Temperature,
a- See below derating table for output power capability at alternate temperature
b- Extended low end temperature range down to -40°C available as a custom option
03. Humidity: 0% to 95% relative humidity, non-condensing
04. Storage Temperature: -30°C to 80°C
05. Cooling: Convection
06. ROHS: Compliant with latest regulations, see approvals section below
07. Operational Altitude: 5000M

F) DESKTOP STYLE ENCLOSURE
01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
02. Size: 176.5 x 74 x 40 +/-1.0 mm
03. Markings: Label or Laser printed
04. AC Input mechanical options: Desktop C6, C8, C14 or C18 IEC Inlet.

G) SPECIAL OPTIONS
01. Custom Cordsets, various cordage types, and connector types
02. Custom Markings
03. Short term Output Surge Power Capability, for motor applications, and short term intermittent high power need applications. 300W for 1 second is available, as a special design variant.
04. Reduced Leakage Current version, medical CF leakage current compliance
05. Tightened output voltage tolerance
06. Reduced Output Ripple Level
08. Reduced output power marking/rating
09. High Rel PCB laminate with Plated through Holes for IPC610 Class 2 Compliance
10. Special Housing Colors and Cordset Colors
11. LED Lighting Applications, Class C Line Harmonics
12. Constant Current output, for Vnom to 0.75xVnom. Add “-CC” suffix to model number. Current level is custom selectable.
13. Back EMF applications, custom solutions. For unusual motor load aps and other high inductance reverse energy flow requirements
14. Improved Ingress Protection Rating

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H) OUTPUT CONNECTORS

Several output connector options are available with various output current ratings.
GlobTek can supply 10A rated 2.1mm and 2.5mm style DC Power Jacks, to complement our
10A output rated 2.1mm and 2.5mm DC power plugs used on our output cordsets.

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Please visit https://en.globtek.com/news/high-current-coaxial-barrel-plug-jacks-for-high-wattage-power-supplies for a real time product offering of mating connectors.

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

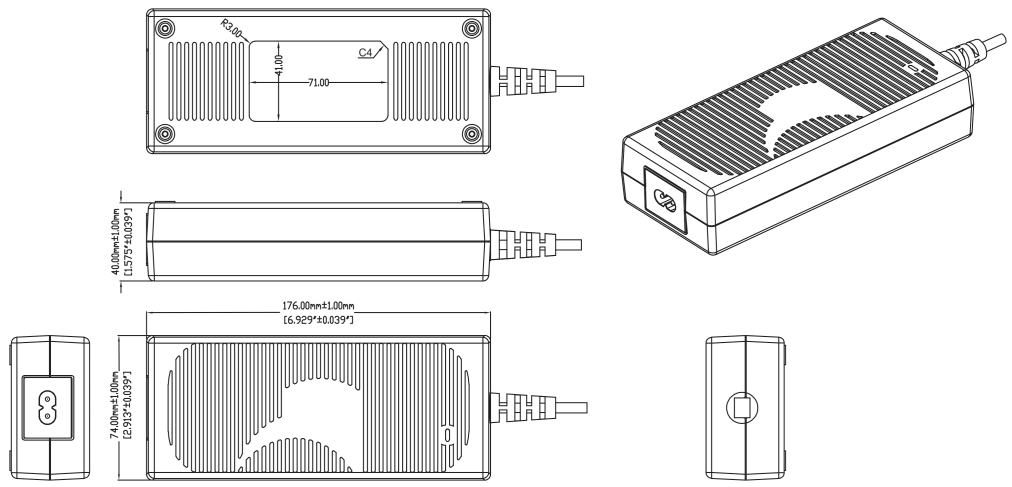
INGRESS PROTECTION: IP41

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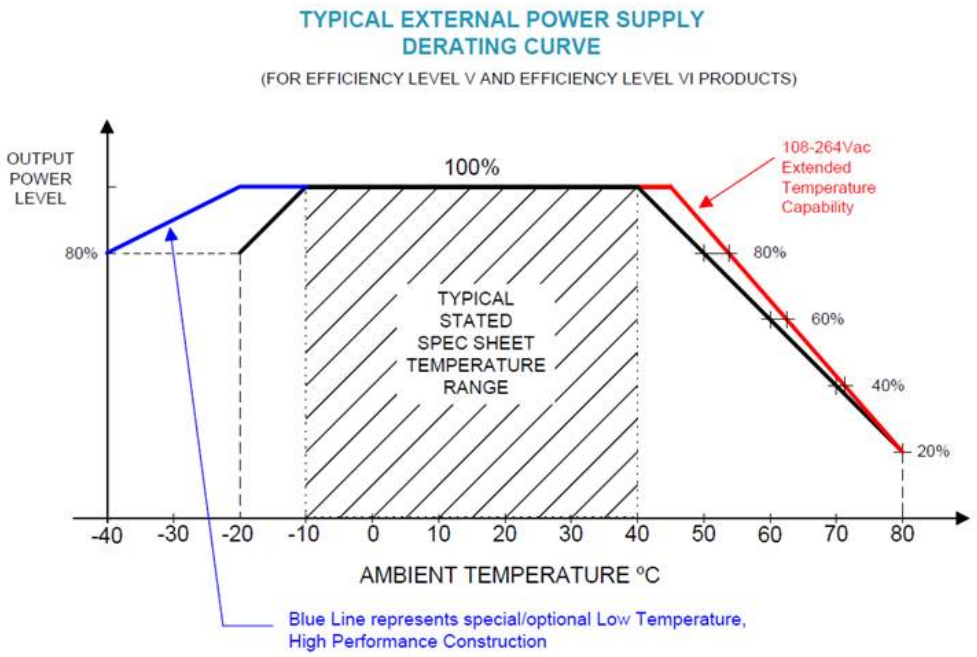
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Mechanical drawing



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DERATING CURVE



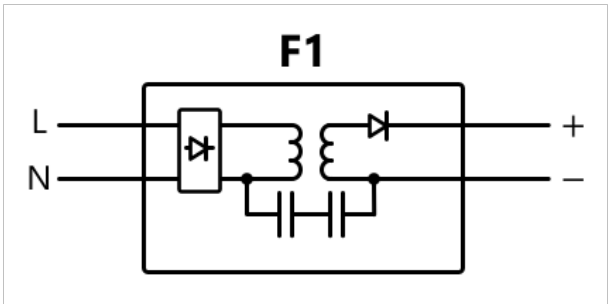
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INPUT CONFIGURATION

(F1) Floating output, Class II / double insulated



Alternate grounding configurations available upon request.

Blades/Cord Included:None:(Order Separately)

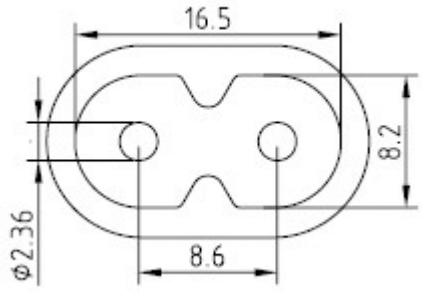
Blades/Cord Installed:None:(Order Separately)

T2 Inlet (IEC 60320/C8)
IEC 60320/C8 AC Inlet connector, Class II, Non-Earth Ground (aka "Figure-8")

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Mates with IEC 60320/C7 Plug

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

Standard International IEC 320/C7 Cordsets

Part Number	Type	Standard	Connector	Length (mm)	Length (feet)
2094112M703(R)	Argentina (Type I)	IRAM 2063	IEC 320/C7	2000	7
5014112M703A(R)	Australian (Type I)	AS 3112	IEC 320/C7	2000	7
207B4111M8703(R)	Brazil (Type N)	NBR14136	IEC 320/C7	1800	6
4533501M8703(R)	China (Type A)	GB 2099.1	IEC 320/C7	1830	6
2074112M703A(R)	European (Type C)	CEE 7/16	IEC 320/C7	2000	7
2074112M703AEUSA(R)	European/South Africa Combo(Type C)	CEE 7/16	IEC 320/C7	2000	7
2084111M8703B(R)	India (Type D)	IS 1293	IEC 320/C7	1800	6
451J3401M8703(R)	Japan (Type A)	JIS 8303	IEC 320/C7	1830	6
2044112M703A(R)	Korea (Type C)	KS C8305	IEC 320/C7	2000	7
4511116F703A(R)	North America (Type A)	NEMA 1-15P	IEC 320/C7	1830	6
2084111M8703(R)	South Africa (Type M)	BS 546	IEC320/C7	1830	6
4033401M8703A(R)	Taiwan (Type A)	CNS690	IEC 320/C7	1830	6
6104112M703A(R)	UK, Hong Kong, Singapore, Gulf States (Type G)	BS1363	IEC 320/C7	2000	7
451G1116F703A(R)	Gulf States (Kuwait, Bahrain, Oman, Qatar, Saudi Arabia, Yemen and the United Arab Emirates (UAE)(Type A)	Nema 1-15P	IEC320/C7	1830	6
6303742M5703(R)	Thailand (Type C)	TIS 166-2549	IEC320/C7	2500	8

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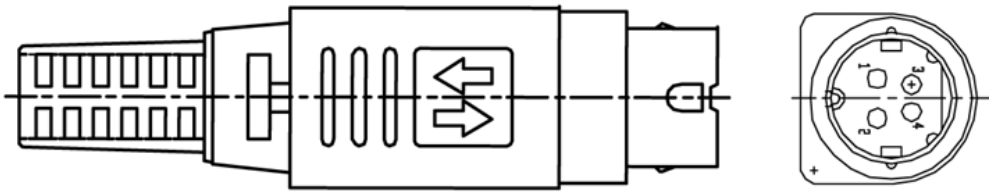
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OUTPUT CORD AND CONNECTOR: YL4/C21421

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

CABLE TYPE	UL 1185
CABLE LENGTH (mm)	1200
CABLE TOLERANCE (mm)	+100, -0
WIRE GAUGE (AWG)	14
CONDUCTORS	1C + Shield
HANK DIMENSION (mm)	120 ± 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	4 Pin Locking Kycon or Equal
OUTPUT CONNECTOR GENDER	Male
OVERMOLDED Yes	
OVER MOLD ORIENTATION Straight	
CONNECTOR PIN OUT Pin 2,4: +V, Pin 1,3, Shell: -V	



Please visit https://en.globtek.com/news/power-din-locking-connector-cable-assemblies-and-accessories for Power Din connector mating jacks (Sheilded and unsheilded), inline mating plugs, and extension cables in various custom and standard lengths available from stock in both black and white.

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/PtqjjL

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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

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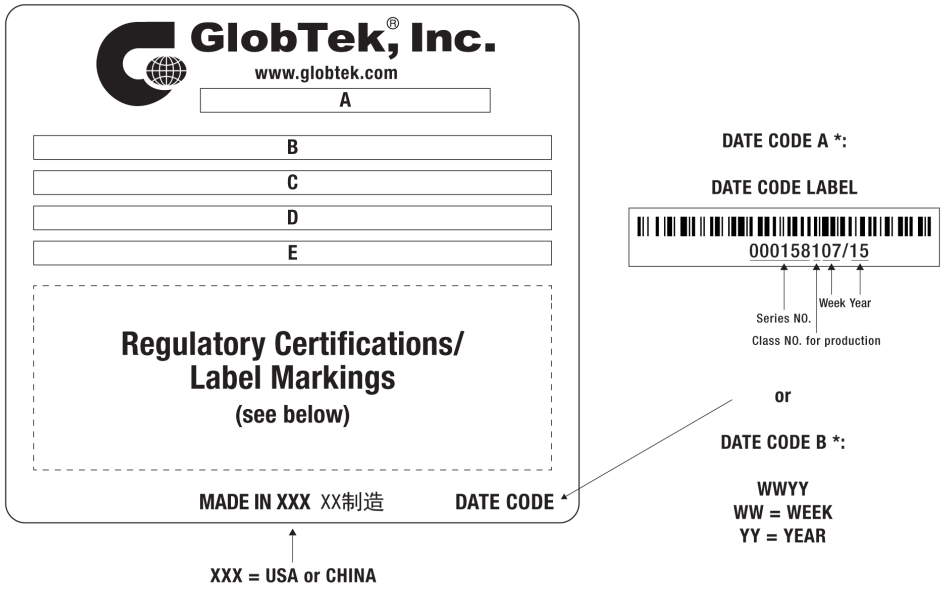
GlobTek, Inc.
www.globtek.com
186 Veterans Drive,
Northvale, NJ 07647
Tel. (201) 784-1000
Fax (201) 784-0111

Drawing Title: GTM961600P16019-T2, Medical/ICT/ITE/Household use Power Supply, Efficiency Level: USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782, Case Color/Style: GlobTek Black, Desktop/External, Regulated Switchmode AC-DC Power Supply AC Adaptor, Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C8, , Output Rating: 160.00W, 19.0V@8.42A, Pin Out: Pin 2,4: +V, Pin 1,3, Shell: -V, Output Configuration: 1200 mm, 14/1C + Shield Cond, UL 1185, 4 Pin Locking Kycon or Equal, Ferrite: None, GlobTek Black, GT Cord # C21421, Blades/Input Cord: (Order Separately), Approvals:	
Model No. GTM961600P16019-T2	
Part No./Ordering No. TR9KZ8421YL4IMR6B	Rev B

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)	41.0
LABEL HEIGHT (mm)	71.0
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=Medical/ICT/ITE/Household use Power Supply
B=P/N: (料号) TR9KZ8421YL4IMR6B
C=Model (型号) GTM961600P16019-T2
D=Input (输入)100-240V~, 50-60 Hz, 2.2A
E=Output (输出)19.0 V ⎓ 8.42 A, 160.00W

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AGENCY ONLINE DOCUMENTS	http://www.globtek.info/certs/GTM961800P/
CE EC-Declaration for Medical	https://cs.globtek.info/ec_declaration_product?id=01t0c000008P91v&m=1
CE EC-Declaration for Industrial/Commercial/ITE	https://cs.globtek.info/ec_declaration_product?id=01t0c000008P91v&i=2
CE EC-Declaration for Household	https://cs.globtek.info/ec_declaration_product?id=01t0c000008P91v&h=2
UKCA-Declaration for Medical	https://cs.globtek.info/ukca_declaration_product?id=01t0c000008P91v&m=1
UKCA-Declaration for Industrial/Commercial/ITE	https://cs.globtek.info/ukca_declaration_product?id=01t0c000008P91v&i=2
UKCA-Declaration for Household	https://cs.globtek.info/ukca_declaration_product?id=01t0c000008P91v&h=2
Morocco SDoC Declaration	https://cs.globtek.info/Morocco_SDoC_Declaration?id=a0O0c00000Old6mEAB
RoHS/RoHS3 Declaration	https://www.globtek.com/pdf/rohs_cert/01t0c000008P91vAAC
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.

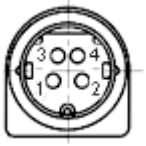
Regulatory Certifications/Label Markings

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/bw8hQiMUzU4/ZkvM9fiX8UQ.html
AGENCY ONLINE DOCUMENTS	http://www.globtek.info/certs/GTM961800P/
	(F1) Floating output, Class II / double insulated

Front View



Pin 2,4: +V, Pin 1,3, Shell: -V

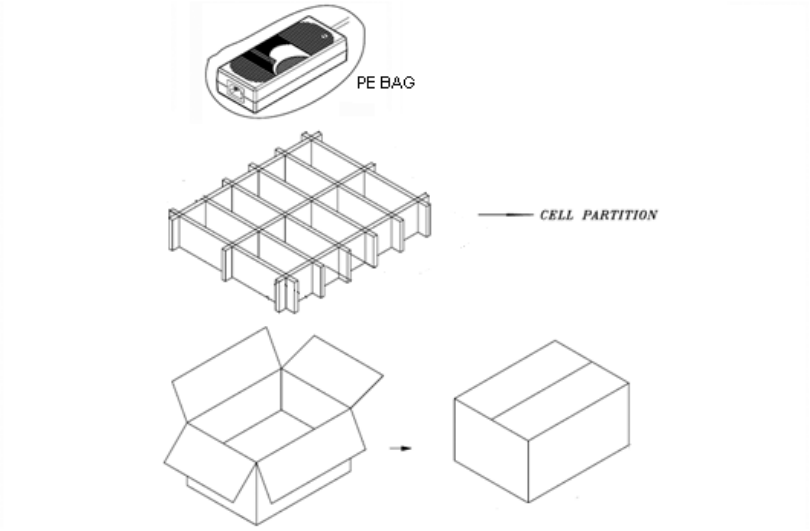
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PACKAGING

Packing Spec P/N	Standard DT, Cellular packaging, User manual
Packing Quantity/Multiple/MPQ	20
Gift Box Size (mm)	Cellular Packaging
Gift Box Color	None
Master Carton Size (mm)	450 x 461 x 182
Master Carton Cubic Volume (m^3)	0.04
Master GW (Kg)	16.0 kg
BLADES INCLUDED	None: (Order Separately)
BLADE/CORD INSTALLED	None: (Order Separately)
USER MANUAL*	809-DESKTOPUSERMANUAL on A4 paper
USER MANUAL WEB LINK	https://www.globtek.com/pdf/809-DESKTOPUSERMANUAL.jpg

* 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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Model No. GTM961600P16019-T2	
Part No./Ordering No. TR9KZ8421YL4IMR6B	Rev B

INSTRUCTION SHEET

N/A

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