

GloTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000 Fax (201) 784-0111	Drawing Title: GTDP61200-12024, ITE Power Supply, Efficiency Level: USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782, Case Color/Style: GloTek Black, Desktop/External, DC-DC, Input Rating: 12-32 VDC, IEC 60320/C8 , Output Rating: 120W, 24.0V@5.0A, Output Configuration: 1530 mm, 16/1C + Shield Cond, UL 1185, 4 Pin Kycon Locking Plug or Equal, Ferrite: Core Size:10.5*20*5.6, GloTek Black, GT Cord # C2832, Pin Out: PINS 1, 2: +V, PINS 3, 4: COM/GROUND, Blades/Input Cord: (Order Separately), Approvals: EAC; CB 60601-1; CE; VCCI; WEEE; China RoHS; RoHS;	
	Model No. GTDP61200-12024	Part No./Ordering No. GTDJI5000YL4R6B

Rev E

## REVISION HISTORY

REV	DESCRIPTION	SUB	DATE	APPROVED
E	Change ferrite core from 14.2*28.5*8.2 mm to 10.5*20*5.6 mm, remove double box from grounding configuration	QA	09/08/2020	QA
D	Change from 4 contacts to 2 contacts Male Cigarette Lighter Plug	QA	01/08/2020	QA
C	Added deviation: Output range is 23.5 V - 24.5 V	fclif	12/27/2019	QA
B	Remove note from deviation, add input cord	QA	07/13/2016	QA
A	Initial release	QA	06/28/2016	QA

In Addition to GloTek Inc.'s renewed ISO9001:2015 - Quality Management System Certification, GloTek 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/>

### Customer Approval of Specification:

Please approve, sign and send back to GloTek 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:

The acceptance of this specification and use of the product described in this document indicates the acceptance and binding of the customer to GloTek terms and conditions, which supersede all other agreements, terms, and conditions (<https://en.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:

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

### Limitation of Use:

GloTek products are intended for use with commercial, medical, and/or industrial equipment only. GloTek 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 GloTek Inc.

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

**RELEASED**

**By pudxc at 12:01 pm, Sep 10, 2020**

### PROPRIETARY INFORMATION

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	Model No. GTDP61200-12024	Part No./Ordering No. GTDJI5000YL4R6B

Rev E

## POWER SUPPLY INFORMATION

TYPE:	Desktop/External
TECHNOLOGY:	DC-DC
CASE COLOR:	GlobTek Black
NAMEPLATE RATED INPUT:	12-32 VDC, Max.
INPUT CONFIG:	IEC 60320/C8
WATTS:	120.0
VOLTS OUT:	24.0
CURRENT OUT (Amps):	5.0
BLADE/CORD INCLUDED:	None (Order Separately)
BLADE/CORD INSTALLED:	None :(Order Separately)
INGRESS PROTECTION:	
GROUNDING CONFIGURATION:	(X1) Not a power supply (Not applicable)
EFFICIENCY LEVEL:	USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782
OUTPUT CONFIGURATION:	1530 mm, 16/1C + Shield Cond, UL 1185, 4 Pin Kycon Locking Plug or Equal, Ferrite: Core Size:10.5*20*5.6, GlobTek Black, GT Cord # C2832
OVERMOLDED:	No
OUTPUT CONNECTOR GENDER:	Male
CONNECTOR PIN OUT:	PINS 1, 2: +V, PINS 3, 4: COM/GROUND
LABEL SPECS:	Standard GT,L-1186
SPECIAL BARCODE LABEL	
MATERIAL:	No
PACK SPEC:	Standard WPI, Individually Box
USER MANUAL:	

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	<p>Rev E</p>

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

DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE.

Output range is 23.5V – 24.5V

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## ELECTRICAL SPECIFICATIONS

### A) ELECTRICAL SPECIFICATIONS:

01. Input Voltage: 12~32Vdc
02. Input current: Maximum 15A
03. Output Current(Max.): 5.0A
04. Output Power(Max.): 120W
05. Output Ripple & Noise : 240mV max
06. Efficiency: ≥85%

### B) PROTECTION

01. Over voltage protection: autorecovery
02. Limit current protection: Optional
03. Short-circuit protection: autorecovery

### C) SAFETY & EMC

01. CE, LVD

### 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: -20°C to 85°C
05. Cooling: Convection
06. RoHS 2: Complies with EU 2011/65/EU China SJ/T 11363-2006

### E) ENCLOSURE

01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
02. Size: 134\*54\*30.5 mm +/-1.0 mm
03. Markings: Label and/or Pad Printed and/or Molded in the case

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

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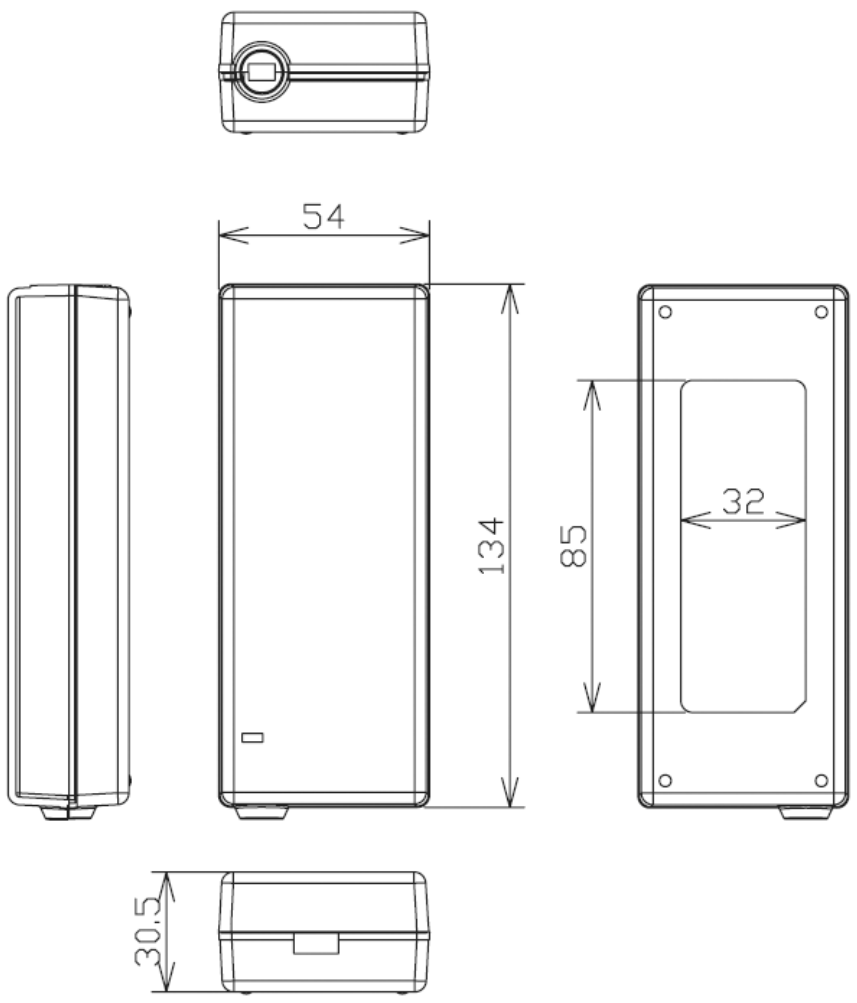
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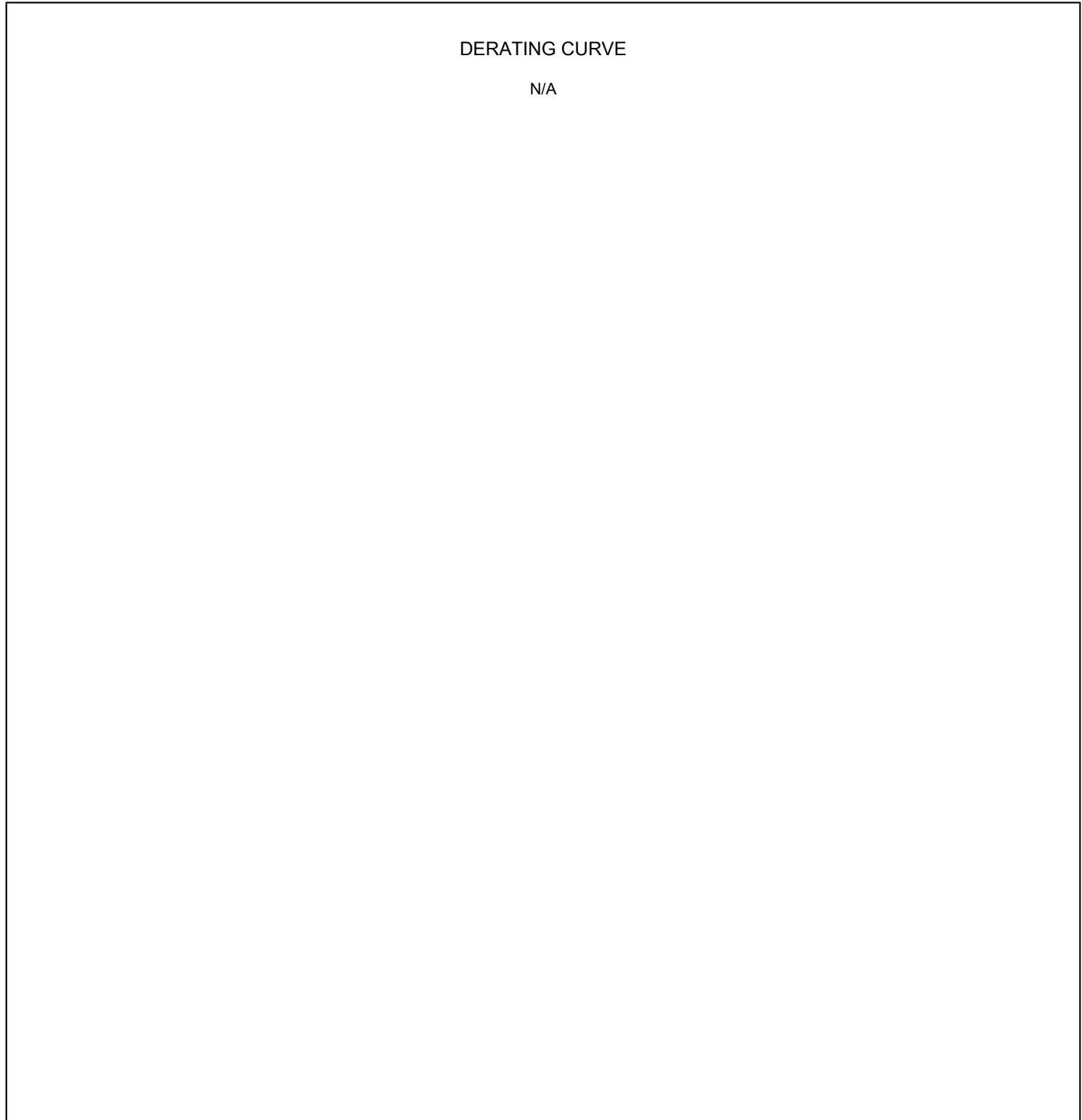
Model No. GTDP61200-12024

Part No./Ordering No. GTDJI5000YL4R6B

Rev E



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## INPUT CONFIGURATION

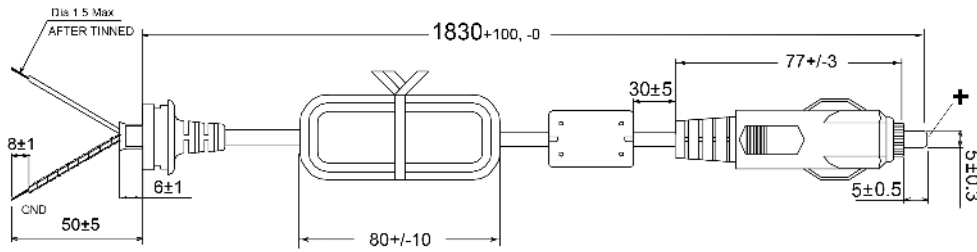
(X1) Not a power supply (Not applicable)

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

Blades/Cord Included:None:(Order Separately)

Blades/Cord Installed:None:(Order Separately)

Male Cigarette Lighter Plug,UL 1185 ,18AWG ,1830 mm for GTDP61200-120VV



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Rev E

**OUTPUT CORD AND CONNECTOR: YL4/C2832**

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

CABLE TYPE	UL 1185
CABLE LENGTH (mm)	1530
CABLE TOLERANCE (mm)	+50/-0
WIRE GAUGE (AWG)	16
CONDUCTORS	1C + Shield
HANK DIMENSION (mm)	120 ± 10
CABLE / CONNECTOR OVERMOLD COLOR	GlobTek Black
FERRITE TYPE / DIMENSION	Core Size:10.5*20*5.6
FERRITE # OF TURNS( <a href="#">Definition</a> )	2 Pass thru core (1 turns)
FERRITE DIMENSION FROM STRAIN RELIEF	50 +/-10
FERRITE DIMENSION FROM PLUG	N/A
PLUG TYPE	4 Pin Kycon Locking Plug or Equal
OUTPUT CONNECTOR GENDER	Male
OVERMOLDED	No
OVER MOLD ORIENTATION	Straight
CONNECTOR PIN OUT:	PINS 1, 2: +V, PINS 3, 4: COM/GROUND
ADDITIONAL REQUIREMENTS	

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

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

CALCULATE VOLTAGE REGULATION/DROP WITH OUR ONLINE CALCULATOR: <https://en.globtek.com/output-cable-regulation-calculator/>



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	<p>Rev E</p>

## 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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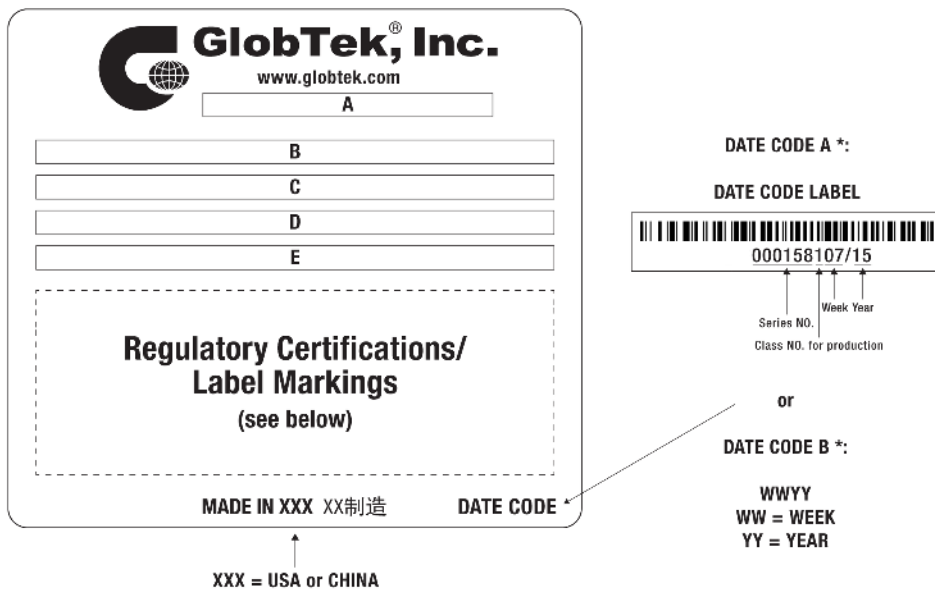
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	Model No. GTDP61200-12024	Rev E
Part No./Ordering No. GTDJI5000YL4R6B		

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):	32.0
LABEL HEIGHT (mm):	85.0
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=ITE Power Supply  
 B=P/N: (料号) GTDJI5000YL4R6B  
 C=Model (型号) GTDP61200-12024  
 D=Input (输入)12-32 VDC, Max.  
 E=Output (输出)24.0 V 5.0 A, 120,0W

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Rev E

#### AGENCY ONLINE DOCUMENTS

CE EC-Declaration for Medical	<a href="#">Contact GlobTek for more information</a>
CE EC-Declaration for Industrial/Commercial/ITE	<a href="http://globtek.force.com/models/ec_declaration_product?id=01ta0000006xGGi&amp;i=5">http://globtek.force.com/models/ec_declaration_product?id=01ta0000006xGGi&amp;i=5</a>
CE EC-Declaration for Household	<a href="#">Contact GlobTek for more information</a>
UKCA-Declaration for Medical	<a href="#">Contact GlobTek for more information</a>
UKCA-Declaration for Industrial/Commercial/ITE	<a href="http://globtek.force.com/models/ukca_declaration_product?id=01ta0000006xGGi&amp;i=5">http://globtek.force.com/models/ukca_declaration_product?id=01ta0000006xGGi&amp;i=5</a>
UKCA-Declaration for Household	<a href="#">Contact GlobTek for more information</a>
Morocco SDoC Declaration	<a href="https://globtek.secure.force.com/models/Morocco_SDoC_Declaration?id=a00a0000000JbbMEAT">https://globtek.secure.force.com/models/Morocco_SDoC_Declaration?id=a00a0000000JbbMEAT</a>
RoHS/RoHS3 Declaration	<a href="https://www.globtek.com/pdf/rohs_cert/01ta0000006xGGiAAM">https://www.globtek.com/pdf/rohs_cert/01ta0000006xGGiAAM</a>
REACH Declaration	<a href="https://www.globtek.com/pdf/iso_certificates/REACH.pdf">https://www.globtek.com/pdf/iso_certificates/REACH.pdf</a>
Conflict Minerals Declaration	<a href="https://www.globtek.com/pdf/conflict-minerals.pdf">https://www.globtek.com/pdf/conflict-minerals.pdf</a>

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

LATEST PRODUCT/MODEL CERTIFICATIONS: <http://en.globtek.com/datasheet/id/a00a0000000JbbM>

AGENCY ONLINE DOCUMENTS:

(X1) Not a power supply (Not applicable)



PINS 1, 2: +V, PINS 3, 4: COM/GROUND

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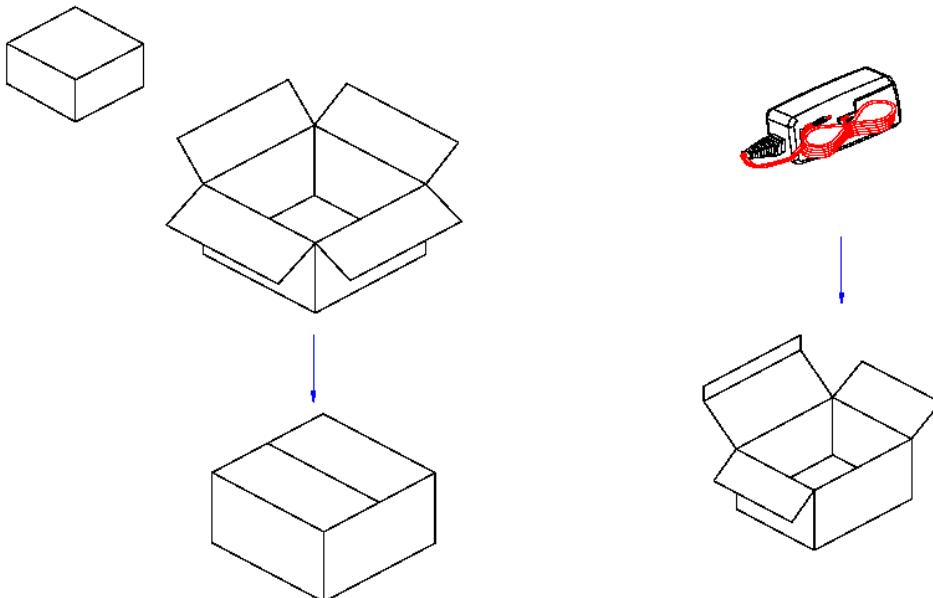
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## PACKAGING

Packing Spec P/N:	Standard WPI, Individually Box
Box Qty:	24
Gift Box Size (mm):	200*140*50
Gift Box Color:	White
Master Carton Size (mm):	440 x 415 x 230
Master Carton Cubic Volume (m³):	0.04
Master GW (Kg):	15,6 kg
BLADES INCLUDED:	None: (Order Separately)
BLADE/CORD INSTALLED:	None: (Order Separately)
USER MANUAL*:	
USER MANUAL WEB LINK:	

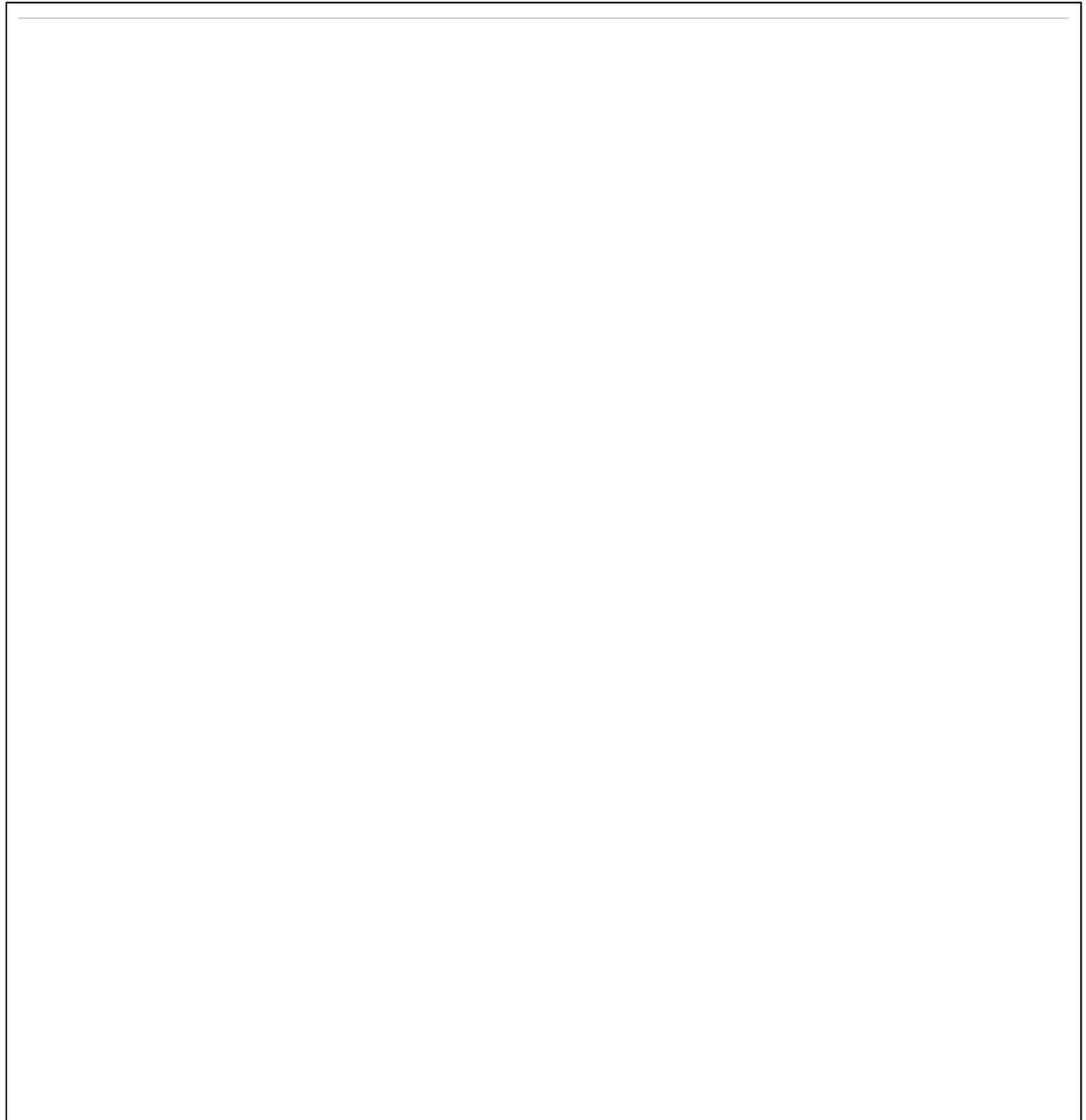
\* This specification sheet is considered the user manual for all applications. It is expected that the buyer of this product will use it to formulate their own user manual for their end product and a user manual specifically for the power adapter is not usually required. If a user manual is not specifically 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



## PROPRIETARY INFORMATION

<p>GlobTek, Inc.  www.globtek.com  186 Veterans Drive,  Northvale, NJ 07647  Tel. (201) 784-1000  Fax (201) 784-0111</p>	<p>Drawing Title: GTDP61200-12024, ITE Power Supply, Efficiency Level: USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782, Case Color/Style: GlobTek Black, Desktop/External, DC-DC, Input Rating: 12-32 VDC, IEC 60320/C8 , Output Rating: 120W, 24.0V@5.0A, Output Configuration: 1530 mm, 16/1C + Shield Cond, UL 1185, 4 Pin Kycon Locking Plug or Equal, Ferrite: Core Size:10.5*20*5.6, GlobTek Black, GT Cord # C2832, Pin Out: PINS 1, 2: +V, PINS 3, 4: COM/GROUND, Blades/Input Cord: (Order Separately), Approvals: EAC; CB 60601-1; CE; VCCI; WEEE; China RoHS; RoHS;</p>
	<p>Model No. GTDP61200-12024</p>
	<p>Part No./Ordering No. GTDJI5000YL4R6B</p>
	<p>Rev E</p>



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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 power supply 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.

## INSTRUCTION SHEET

N/A