GlobTek, Inc. www.globtek.com 186 Veterans Drive,	Model No. GTD83050-0505	
Northvale, NJ 07647 Tel. (201) 784-1000		
Fax (201) 784-0111	Part No./Ordering No. GTDJ1000USB-F(R6B)	Rev A1

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://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:

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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Tel. (201) 784-1000
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Drawing Title: GTD83050-0505, DC/DC Switching Power Supply, Efficiency Level: , Case Color/Style: GlobTek Black, Vehicle/Car DC/DC Converter, DC-DC Non-Isolated, Input Rating: 12-24 Vdc, Male Cigarette Lighter Plug , Output Rating: 5W, 5.0V@1.0A, Output Configuration: 4000 mm, 20/2 Cond, UL 2468, Mini-B USB 5 Pin Type "B" or Equal, Ferrite: None, GlobTek Black, GT Cord # C28283, Pin Out: Pin 1: +V, Pin 2,3,4: N/C, Pin 5:-V, Blades/Input Cord: (Order Separately), Approvals: CE; EAC; Ukraine; WEEE; RoHS; PSE; China RoHS; VCCI; ETL 62368;

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Rev A1

REVISION HISTORY

REV	DESCRIPTION	SUB	DATE	APPROVED
A1	Update engineering specification	QA	06/18/2020	QA
Α	Initial release	QA	10/22/2018	QA

POWER SUPPLY INFORMATION

TYPE:	Vehicle/Car DC/DC Converter
TECHNOLOGY:	DC-DC Non-Isolated
CASE COLOR:	GlobTek Black
NAMEPLATE RATED INPUT:	12-24 Vdc, 1A max
INPUT CONFIG:	Male Cigarette Lighter Plug
WATTS:	5.0
VOLTS OUT:	5.0
CURRENT OUT (Amps):	1.0
BLADE/CORD INCLUDED:	None (Order Separately)
BLADE/CORD INSTALLED:	None :(Order Separately)
INGRESS PROTECTION:	
GROUNDING CONFIGURATION:	(E2) Class II, FE, earthed output
OUTPUT CONFIGURATION:	4000 mm, 20/2 Cond, UL 2468, Mini-B USB 5 Pin Type "B" or Equal, Ferrite: None, GlobTek Black, GT Cord # C28283
OVERMOLDED:	Yes
OUTPUT CONNECTOR GENDER:	Male
CONNECTOR PIN OUT:	Pin 1: +V, Pin 2,3,4: N/C, Pin 5:-V
LABEL SPECS:	Standard GT,L-1186
SPECIAL BARCODE LABEL MATERIAL:	No
PACK SPEC:	
USER MANUAL:	

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Northvale, NJ 07647 Tel. (201) 784-1000	Model No. GTD83050-0505	
Fax (201) 784-0111	Part No./Ordering No. GTDJ1000USB-F(R6B)	Rev A1

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

INPUT VOLTAGE: 10-30VDC INPUT CURRENT: 1.0 A MAX OUTPUT VOLTAGE: + 5 V DC

OUTPUT CURRENT: 1 A, NO LOAD TO FULL LOAD, NO MINIMUM LOAD REQUIRED OUTPUT POWER (RATED): 5 WATTS MAX

OUTPUT RIPPLE (PEAK TO PEAK): 1% TYPICAL

OUTPUT REGULATION (LINE/LOAD): + 5 % FOR MAIN OUTPUT, MEASURED AT O/P CONNECTOR LINE REGULATION: + 0.5 % MAX AT FULL

TURN ON/ TURN OFF OVERSHOOT: 4% MAX 500uS MAX RECOVERY TIME FOR 25% STEP LOAD TURN-ON DELAY: 1 SEC MAX

EFFICIENCY: 70 % TYPICAL

SWITCHING FREQUENCY: 100 KHZ TYPICAL

OVER-VOLTAGE PROTECTION: AUTORECOVERY OVER-CURRENT / SHORT CIRCUIT: CURRENT LIMIT OTHER PROTECTION: INPUT FUSING

MTBF: 200,000 HOURS AT 25°C AMBIENT TEMPERATURE OPERATING TEMPERATURE: 0°C TO 40° C STORAGE TEMPERATURE: -20°C TO 85° C HUMIDITY: 0% TO 90% RELATIVE HUMIDITY WEIGHT: 209 g

ROHS 2: COMPLIES WITH EU 2011/65/EU AND CHINA SJ/T 11363-2006

SAFETY APPROVALS (DESIGNED TO MEET): UL62368-1, UL60950-1, CUL 22.2# 60950-1, TUV EN60950-1

EMC, EMISSIONS: COMPLIES WITH RADIATED EMISSIONS REQUIREMENTS FROM CISPR22/EN55022 CLASS B AND FCC PART 15 CLASS B, WHEN TESTED WITH A RESISTIVE LOAD

EMC, IMMUNITY: COMPLIES WITH APPLICABLE REQUIREMENTS FROM EN50498,

EN61000-4-2, EN61000-4-3 and EN61000-4-8

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:

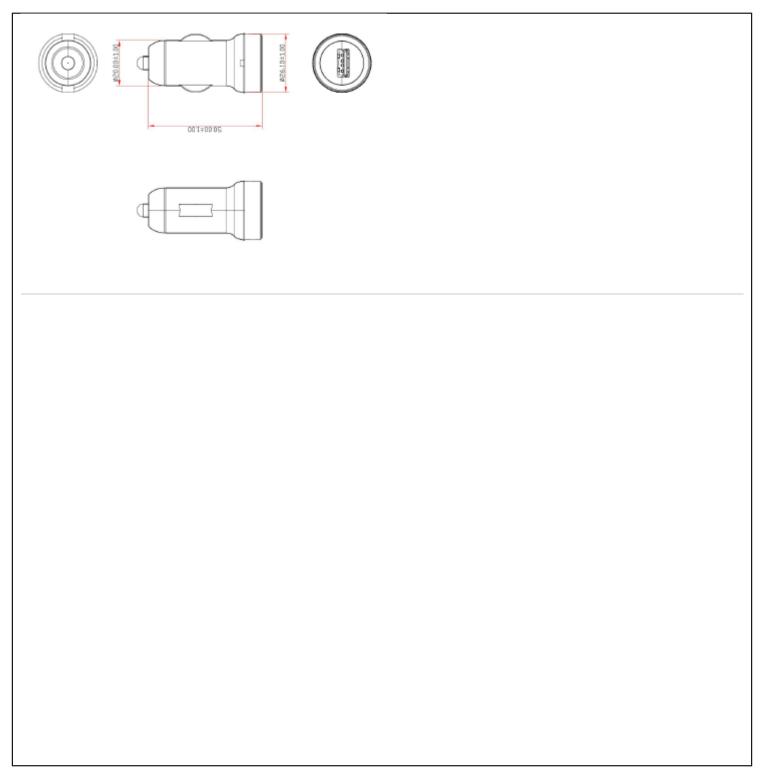
https://en.globtek.com/technical-articles/ferrite-kit-radiated-emi-suppression-kit-for-globtek-power-supplies-cable-assemblies

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GlobTek, Inc. www.globtek.com 186 Veterans Drive, Northvale, NJ 07647 Tel. (201) 784-1000	Non-Isolated, Input Rating: 12-24 Vdc, Male Cigarette Lighter Plug, Output Rating: 5W, 5.0V@1.0A, Output Configuration: 4000 mm, 20/2 Cond, UL 246 USB 5 Pin Type "B" or Equal, Ferrite: None, GlobTek Black, GT Cord # C28283, Pin Out: Pin 1: +V, Pin 2,3,4: N/C, Pin 5:-V, Blades/Input Cord: (Order S Approvals: CE; EAC; Ukraine; WEEE; RoHS; PSE; China RoHS; VCCI; ETL 62368; Model No. GTD83050-0505	
Fax (201) 784-0111	Part No./Ordering No. GTDJ1000USB-F(R6B)	Rev A1

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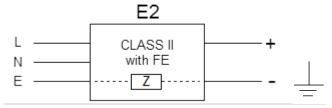
Model No. GTD83050-0505

Part No./Ordering No. GTDJ1000USB-F(R6B)

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INPUT CONFIGURATION

(E2) Class II, FE, earthed output



Alternate grounding configurations available upon request.

Blades/Cord Included:None:(Order Separately)

Blades/Cord Installed:None:(Order Separately)

Male Cigarette Lighter Plug

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Model No. GTD83050-0505

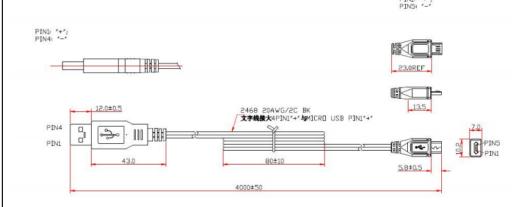
Part No./Ordering No. GTDJ1000USB-F(R6B)

Rev A1

OUTPUT CORD AND CONNECTOR: USB3/C28283 ACTUAL CONNECTORS, OVERMOLDS, FERRITES MAY VARY SLIGHTLY FROM THE PICTURE BELOW **CABLE TYPE** UL 2468

CABLE LENGTH (mm)	4000
CABLE TOLERANCE (mm)	+150,-0
WIRE GAUGE (AWG)	20
CONDUCTORS	2
HANK DIMENSION (mm)	80 +10 -10
CABLE / CONNECTOR OVERMOLD COLOR	GlobTek Black
FERRITE TYPE / DIMENSION	None
FERRITE # OF TURNS(Definition)	N/A
FERRITE DIMENSION FROM STRAIN RELIEF	N/A
FERRITE DIMENSION FROM PLUG	N/A
PLUG TYPE	Mini-B USB 5 Pin Type "B" or Equal
OUTPUT CONNECTOR GENDER	Male
OVERMOLDED	Yes
OVER MOLD ORIENTATION	Straight
CONNECTOR PIN OUT:	Pin 1: +V, Pin 2,3,4: N/C, Pin 5:-V

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/

GlobTek, Inc. www.globtek.com 186 Veterans Drive,	USB 5 Pin Type "B" or Equal, Ferrite: None, GlobTek Black, GT Cord # C28283, Pin Out: Pin 1: +V, Pin 2,3,4: N/C, Pin 5:-V, Blades/Input Cord: (Order Sepa Approvals: CE; EAC; Ukraine; WEEE; RoHS; PSE; China RoHS; VCCI; ETL 62368; Model No. GTD83050-0505	
Northvale, NJ 07647 Tel. (201) 784-1000		
Fax (201) 784-0111	Part No./Ordering No. GTDJ1000USB-F(R6B)	Rev A1

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

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Model No. GTD83050-0505

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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):	36
LABEL HEIGHT (mm):	85
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=DC/DC Switching Power Supply B=P/N: (料号) GTDJ1000USB-F(R6B) C=Model (型号) GTD83050-0505 D=Input (输入)12-24 Vdc, 1A max E=Output (输出)5.0 V === 1.0 A, 5.0W

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AGENCY ONLINE DOCUMENTS	http://www.globtek.info/certs/GTD83050/
CE EC-Declaration for Medical	Contact GlobTek for more information
CE EC-Declaration for Industrial/Commercial/ITE	http://globtek.force.com/models/ec_declaration_product?id=01t0c000008pyZW&i=4
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	http://globtek.force.com/models/ukca_declaration_product?id=01t0c000008pyZW&i=4
UKCA-Declaration for Household	Contact GlobTek for more information
Morocco SDoC Declaration	$https://globtek.secure.force.com/models/Morocco_SDoC_Declaration?id=a0O0c00000QCcb1EADadadadadadadadadadadadadadadadadadadad$
RoHS/RoHS3 Declaration	https://www.globtek.com/pdf/rohs_cert/01t0c000008pyZWAAY
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://en.globtek.com/prop-65-statement.pdf
15) 0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	

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/datasheet/w70407 AGENCY ONLINE DOCUMENTS: http://www.globtek.info/certs/GTD83050/

(E2) Class II, FE, earthed output

Pin 1: +V, Pin 2,3,4: N/C, Pin 5:-V

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Northvale, NJ 07647 Tel. (201) 784-1000	Model No. GTD83050-0505		
` '	Part No./Ordering No. GTDJ1000USB-F(R6B)	Rev A1	

PACKAGING					
Packing Spec P/N:					
Box Qty:	120				
Gift Box Size (mm):	90*62*48				
Gift Box Color:	White				
Master Carton Size (mm):	470 x 310 x 284				
Master Carton Cubic Volume (m³):	0.04				
Master GW (Kg):	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.

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	Model No. GTD83050-0505 Part No./Ordering No. GTDJ1000USB-F(R6B)	Rev A1	
T ax (201) 704-0111	- alternation of the control of the		

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.

INSTRUCTION SHEET

N/A