

Delivering leading edge, innovative power solutions for more than 30 years....

Model:GTD83050-05VV

May 11, 2025

UL Certified Cigarette lighter plug in power supply charger with 5v USB A output

Information

Model Number	GTD83050-05VV
Description	GTD83050-05VV, DC/DC Switching Power Supply, Vehicle/Car DC/DC Converter, DC-DC Non-Isolated, , Input Rating: 12-24 Vdc, Male Cigarette Lighter Plug, Output Rating: 5 Watts, Power rating with convection cooling (W) , 5VV in 0.1V increments, Approvals: CE; EAC; Ukraine; WEEE; RoHS; PSE; China RoHS; VCCI; ETL 62368;

Model Picture



Agency Documents	http://www.globtek.info/certs/GTD83050/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a000c00000QCcb1EAD
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a000c00000QCcb1EAD
REACH Declaration	https://www.globtek.com/pdf/iso_certificates/REACH.pdf
Conflict Minerals Declaration	https://www.globtek.com/pdf/conflict-minerals.pdf

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MODEL PARAMETERS

Type	Vehicle/Car DC/DC Converter
Technology	DC-DC Non-Isolated
Category	DC/DC Switching Power Supply
Input Voltage	12-24 Vdc
I/P Amps (A)	1A max
Wattage (W)	5.0
Vout Range (V)	5V
Efficiency Level	
Ingress Protection	
Size (mm)	51*21 *27.1

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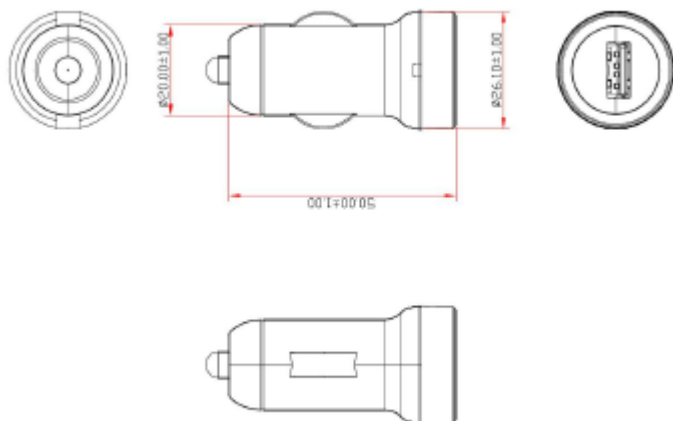
<https://www.globtek.com/ds/ebafia9Pjos/xNg8QvjmEC5.html#datasheet>

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ENCLOSURE



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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTD83050-0505	5 V	1	5.00	RFQ

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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 LOAD

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

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DERATING CURVE

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INPUT CONFIGURATION

Description	Male Cigarette Lighter Plug
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OUTPUT CONFIGURATION

Common output connector options:



L Type (Coaxial
5.5x2.5mm plug)



C Type (Coaxial
5.5x2.1mm plug)



K Type (Coaxial
3.5x1.3mm plug)



LL Type (5.5x2.5mm
Locking 760k type)



CL Type (5.5x2.1mm
Locking S761k type)



ML2 Type (Molex
housing 43025-0200)



YL3 Type
(KPPX-3P)



YL4 Type (KPPX-4P)



EJ1/2/3/4/5 (EIAJ
RC-5320A type
connectors)



MSB Type (Micro
USB)



USBC Type (USB
Type C)



Inquire for custom
design

For a comprehensive list of options, [click here](#)

Contact GlobTek for your specific requirements or custom solutions.

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Approvals

Logo	Description
	CE Mark: tested to comply with EN50498:2010 , EN610003-2, EN610003-3 including EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6N EN61000-4-11; EMI: Complies with EN50498 - On label or Molded in case
	Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Requirements [UL 62368-1:2014 Ed.2] Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Requirements [CSA C22.2#62368-1:2014 Ed.2]
	CHINA SJ/T 11364-2014, China RoHS Chart: http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%205-20-22.pdf
	Declaration ДС № EAЭC N RU Д-US.KA01.B.10453_19 Custom Union of Russia, Belarus and Kazakhstan http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration
 GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50471624, to J62368-1(H30) , J55032(H29),J3000(H25,[15V or less]. Please reference the following website for guidelines on PSE regulations: https://www.globtek.com/r2/Szj4Vb
RoHS	Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863-EU (ROHS-3) http://www.ce-mark.com/Rohs%20final.pdf
	Ukraine UKRSepro (Document: www.globtek.com/html/iso_certificates/GT_Ukraine.pdf)
	Japan: Voluntary Control Council for Interference (VCCI)
	WEEE: Complies with EU 2012/19/EU (http://ec.europa.eu/environment/waste/weee/index_en.htm) Mark is on the label or Molded in the case