

Model:GTD9X0240-24PD

May 9, 2025

GTD9X0240-24PD

Information

Model Number	GTD9X0240-24PD
Description	GTD9X0240-24PD, DC/DC Switching Power Supply, Vehicle/Car DC/DC Converter, DC-DC, , Input Rating: 12-24 Vdc, Lead Wire, Terminal :TE 2-520102-2, Output Rating: 24 Watts, Power rating with convection cooling (W) , 5-9V in 0.1V increments, Approvals: WEEE;

Model Picture



Agency Documents	http://www.globtek.info/certs/GTD9X0240/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0O3a00000MYTBTEA5
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0O3a00000MYTBTEA5
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
Category	DC/DC Switching Power Supply
Input Voltage	12-24 Vdc
I/P Amps (A)	2.5 A
Wattage (W)	24.0
Vout Range (V)	5-9
Efficiency Level	
Ingress Protection	
Size (mm)	63.7 x 47.8 x 18.1 mm

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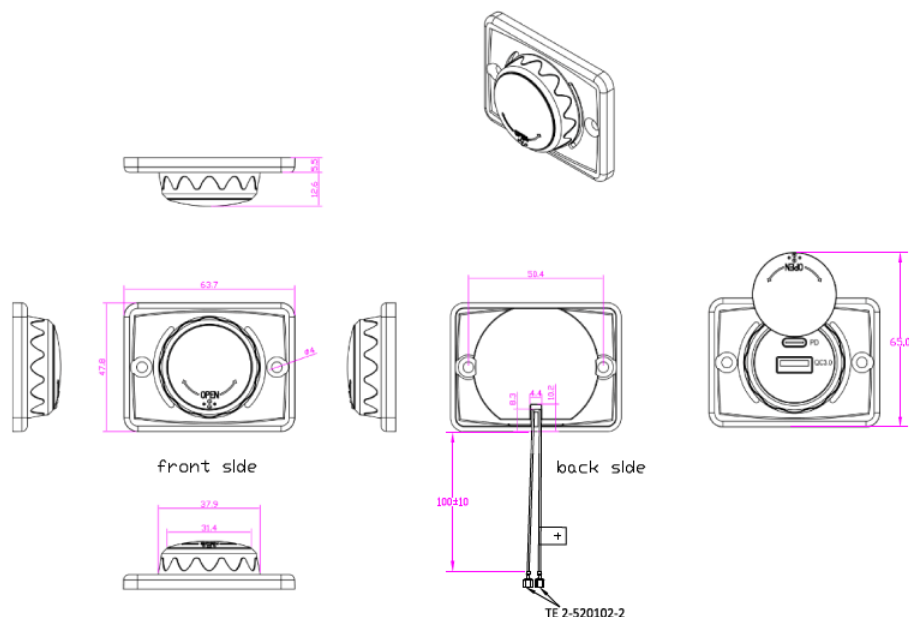
<https://www.globtek.com/ds/RfwXrdHdevV/T9oeWbZgAG2.html#datasheet>

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ENCLOSURE



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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTD9X0240-24PD	5 V	4.8	24.00	RFQ

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SPECIFICATIONS

Input

Input Range 12 - 24VDC**Input Current** 2.5A (max) @ 12VDC & peak output current rating

Output

Output 5V3A / 9V2A /**Voltage/Current:** QC3.0 : 12V1.5A DC

5V2.4A / 9V2A

PD: /12V1.5A VDC

Turn-on Delay: < 3 seconds**Output Regulation** '+/- 5% MEASURED AT O/P CONNECTOR(ONLY WHEN THE INPUT VOLTAGE >13V, WHEN INPUT VOLTAGE<13V, THERE WOULD BE ABOUT 1V DROP FROM INPUT TO OUTPUT AT 12V OUTPUT)**Line Regulation:** '+/- 1% TYPICAL MEASURED AT THE OUTPUT CONNECTOR(ONLY WHEN THE INPUT VOLTAGE >13V, WHEN INPUT VOLTAGE<13V, THERE WOULD BE ABOUT 1V DROP FROM INPUT TO OUTPUT AT 12V OUTPUT)**Ripple:** 1% OR 100 mV WHICHEVER IS GREATER. MEASURED AT 20 MHz BANDWIDTH WITH 0.1 μ f CERAMIC CAPACITOR IN PARALLEL WITH 47 μ f ELECTROLYTIC CAPACITOR CONNECTED AT THE END OF OUTPUT CONNECTOR AT NOMINAL LINE**Transient Response (Step Load):** 10% MAXIMUM, 1mS TYPICAL RECOVERY TIME FOR 25% STEP LOAD**INRUSH Current** 15A TYPICAL AT 24V INPUT

Protections

Input Protection: Input line fusing**Output Over-Current Protection:** Current limit**Over-Temperature Protection:** Thermal shutdown function

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Environmental

MTBF:	> 750,000 hours @ 50°C ambient (Demonstrated + Telcordia SR-332, Issue 3) > 1,500,000 hours @ 25°C ambient (Telcordia SR-332, Issue 3)
Operating Temperature:	-20°C to 45°C (nominal load)
Storage Temperature:	-20°C to 85°C
Humidity:	0% to 95% relative humidity, non-condensing
Altitude	5000m
Cooling:	Convection
RoHS:	Complies with EU 2011/65/EU and China SJ/T 11363-2006

Enclosure

Housing:	High impact plastic, 94V0 polycarbonate, non-vented
Markings:	Adhesive backed label or laser engraving

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DERATING CURVE

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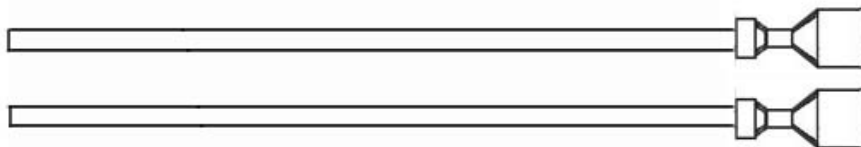
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INPUT CONFIGURATION

Description

Lead Wire, Terminal :TE 2-520102-2



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OUTPUT CONFIGURATION

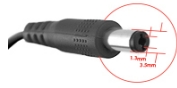
Common output connector options:



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
	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