

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

Model:GT-TDIN0-024024

May 20, 2024

## GT-TDIN0-024024

### Information

|                               |                                                                                                                                                                                                                                                                                    |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Number                  | GT-TDIN0-024024                                                                                                                                                                                                                                                                    |
| Description                   | GT-TDIN0-024024, ICT/ITE Power Supply, DIN Rail, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 90 ~ 264VAC, 127 ~ 370VDC (47 ~ 63Hz), Terminal Block, Output Rating: 24 Watts, Power rating with convection cooling (W) , 24V in 0.1V increments, Approvals: |
| Model Picture                 |                                                                                                                                                                                                   |
| Agency Documents              | <a href="http://en.globtek.com/safety-agency-documents-pending/">http://en.globtek.com/safety-agency-documents-pending/</a>                                                                                                                                                        |
| CE EC-Declaration             | <a href="https://www.globtek.com/pdf/ec_declaration/a0Oa000000MmgJTEAZ">https://www.globtek.com/pdf/ec_declaration/a0Oa000000MmgJTEAZ</a>                                                                                                                                          |
| RoHS/RoHS2 Declaration        | <a href="https://www.globtek.com/pdf/rohs_cert/a0Oa000000MmgJTEAZ">https://www.globtek.com/pdf/rohs_cert/a0Oa000000MmgJTEAZ</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>                                                                                                                                                                  |

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**MODEL PARAMETERS**

|                    |                                                                     |
|--------------------|---------------------------------------------------------------------|
| Type               | DIN Rail                                                            |
| Technology         | Regulated Switchmode AC-DC Power Supply AC Adaptor                  |
| Category           | ICT/ITE Power Supply                                                |
| Input Voltage      | 90 ~ 264VAC, 127 ~ 370VDC (47 ~ 63Hz)                               |
| I/P Amps (A)       | 0.4A                                                                |
| Wattage (W)        | 24.0                                                                |
| Vout Range (V)     | 24                                                                  |
| Efficiency Level   | USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782 |
| Ingress Protection | IP20                                                                |
| Size (mm)          | 102*35.0*45.0 +/-1.0                                                |

**PROPRIETARY INFORMATION**

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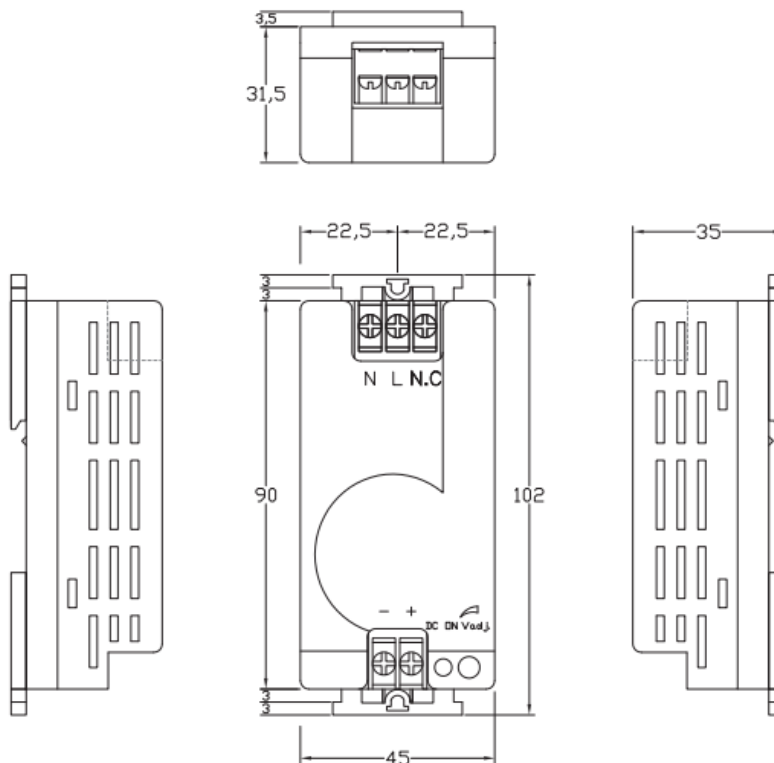
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## ENCLOSURE

DIN RAIL: COMPLIANT WITH EN50022, 2 RAILS:



### Panel Designation

UNIT : mm  
 DIMENSION : 102(H)\*35(D)\*45(W)  
 MATERIAL : PLASTIC  
 COLOR : GRAY

| Single | Description                                            |
|--------|--------------------------------------------------------|
| N      | Neutral Terminal Of AC Input (No Polarity At DC Input) |
| L      | Line Terminal Of AC Input (No Polarity At DC Input)    |
| N.C    | No connection                                          |
| -      | DC Negative Output Terminal                            |
| +      | DC Positive Output Terminal                            |
| DC ON  | Blue LED Indicator                                     |
| V adj. | Potentiometer For Output Voltage                       |

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## RATING TABLE

| Model Number    | Voltage | Amps(A) | Watts(W) | RFQ                 |
|-----------------|---------|---------|----------|---------------------|
| GT-TDIN0-025012 | 12 V    | 2.1     | 25.20    | <a href="#">RFQ</a> |
| GT-TDIN0-024024 | 24 V    | 1       | 24.00    | <a href="#">RFQ</a> |

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## SPECIFICATIONS

01. Input Voltage: 90-264VAc, 127-380VDC
02. Input current: 0.4A RMS Max.
03. Input Frequency: Specified 47-63 Hz
04. Output Voltage: 5-24 Vdc
05. Output current: 1-4A continuous
06. Output Power (rated): 24 Watts continuous
07. Output Load Regulation: +/- 1% measured at the output connector
08. Line Voltage Regulation: +/- 1% typical measured at O/P connector
09. Output Ripple :240 mV p-p, At 20 MHz, bandwidth with 0.1uF ceramic capacitor in parallel with 10 uF, electrolytic capacitor connected at the end of output connecat nominal line
10. Turn-ON/Turn-OFF overshoot: 5% maximum, 1 mS typical recovery time for 25% step load
11. Turn-ON Delay: 1 Second Max
12. Hold-Up Time: 13 mS at rated power (24W)
13. Efficiency: 86% measured at the full load, 220Vac Input

### B) PROTECTION

01. Over load protection Automatic power limited

### C) SAFETY

01. Dielectric Withstand Voltage: 1500 Vdc from primary to secondary
02. earth leakage: <3.5mA @ 90Vac input voltage
03. Ingress protection: IP20

### D) OTHER:

01. MTBF: 200,000 Hours @ 25°C ambient temperature, 77,500 Hours at 45°C
02. Operating Temperature: -15°C to +50°C ambient temperature
03. Humidity: 0% to 90% relative humidity Non Condensing
04. Storage Temperature: -20°C to 85°C
05. RoHS 2: Complies with EU 2011/65/EU China SJ/T 11363-2006
06. Vibration 2G, 10~500Hz, 3 axes

### E) ENCLOSURE

01. Housing: PC94-0 94-V0, Plastic material or equivalent
02. Size: 102\*35.0\*45.0 +/-1.0 mm
03. Weight: 117 g maximum
04. Markings: Label and/or Pad Printed and/or Molded in the case

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## DERATING CURVE

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N/A

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**INPUT CONFIGURATION**

| <u>Description</u> | <u>Terminal Block</u> |
|--------------------|-----------------------|
|--------------------|-----------------------|

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## Approvals

|      |  |
|------|--|
| Logo |  |
|------|--|