

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

Model:GT-V51000-100VV-DIN

May 11, 2025

GT-V51000-100VV-DIN

Information

Model Number	GT-V51000-100VV-DIN
Description	GT-V51000-100VV-DIN, 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: 100.8 Watts, Power rating with convection cooling (W) , 12-48V in 0.1V increments, Approvals:

Model Picture



Agency Documents

CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a003a00000M43xWEAR
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a003a00000M43xWEAR
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	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)	3A
Wattage (W)	100.8
Vout Range (V)	12-48
Efficiency Level	V
Ingress Protection	
Size (mm)	70.00 x 92.66 x 58.00

PROPRIETARY INFORMATION

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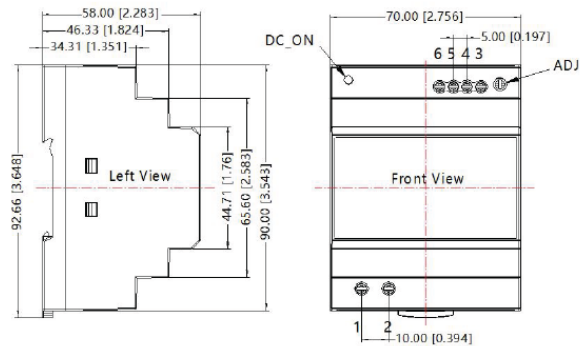
<https://www.globtek.com/ds/SngZ4gk6q6o/mybqv7W27SP.html#datasheet>

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ENCLOSURE



Pin-Out	
Pin	LI100-20B
1	AC(L)
2	AC(N)
3	+Vo
4	+Vo
5	-Vo
6	-Vo

Note:

Unit: mm[inch]

ADJ : adjustable resistance to change output voltage

Wire range: 24-12 AWG

Tightening torque: Max 0.4 N·m

Mounting rail: TS35

General tolerances: $\pm 1.00[\pm 0.039]$

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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GT-V51000-9012-DIN	12 V	7.5	90.00	RFQ
GT-V51000-9815-DIN	15 V	6.5	97.50	RFQ
GT-V51000-10024-DIN	24 V	4.2	100.80	RFQ
GT-V51000-10048-DIN	48 V	2.1	100.80	RFQ

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SPECIFICATIONS

01. Input Voltage: 90-264VAc, 127-380VDC
02. Input current: 3A RMS Max.
03. Input Frequency: Specified 47-63 Hz
04. Output Voltage: 12-48 Vdc
05. Output current: 2.1-7.5A continuous
06. Output Power (rated): 100.8 Watts continuous
07. Output Load Regulation: +/- 1.5% 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 (100W)
13. Efficiency: 90% measured at the full load, 230Vac Input

B) PROTECTION

01. Over load protection Automatic power limited

C) SAFETY

01. Dielectric Withstand Voltage: 4000 Vac from primary to secondary
02. Lakage current: <0.5mA RMS max
03. Ingress protection: IP20

D) OTHER:

01. MTBF: 300,000 Hours @ 25°C ambient temperature, 77,500 Hours at 45°C
02. Operating Temperature: -40°C to +70°C ambient temperature
03. Humidity: 0% to 90% relative humidity Non Condensing
04. Storage Temperature: -40°C to 75°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: 70.00 x 92.66 x 58.00 mm
03. Weight: 235 g maximum
04. Markings: Label and/or Pad Printed and/or Molded in the case

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DERATING CURVE

N/A

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INPUT CONFIGURATION

Description	Terminal Block
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Approvals

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