

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

Model:GT-91082

April 28, 2024

GT-91082

Information

Model Number	GT-91082
Description	GT-91082, ICT/ITE Power Supply, Desktop/External, Gigabit Power over Ethernet (IEEE802.3af PoE PSE), , Input Rating: 40 - 58VDC, , Output Rating: 40 Watts, Power rating with convection cooling (W) , 12, 24V in 0.1V increments, Approvals: China RoHS; RoHS; Ukraine; VCCI; WEEE; PSE;

Model Picture



Agency Documents

CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0Oa000000MmXqYEAV
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0Oa000000MmXqYEAV
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	Desktop/External
Technology	Gigabit Power over Ethernet (IEEE802.3af PoE PSE)
Category	ICT/ITE Power Supply
Input Voltage	40 - 58VDC
I/P Amps (A)	0.6A
Wattage (W)	40.0
Vout Range (V)	12, 24
Efficiency Level	
Ingress Protection	
Size (mm)	125*72*38 (L*W*H)

PROPRIETARY INFORMATION

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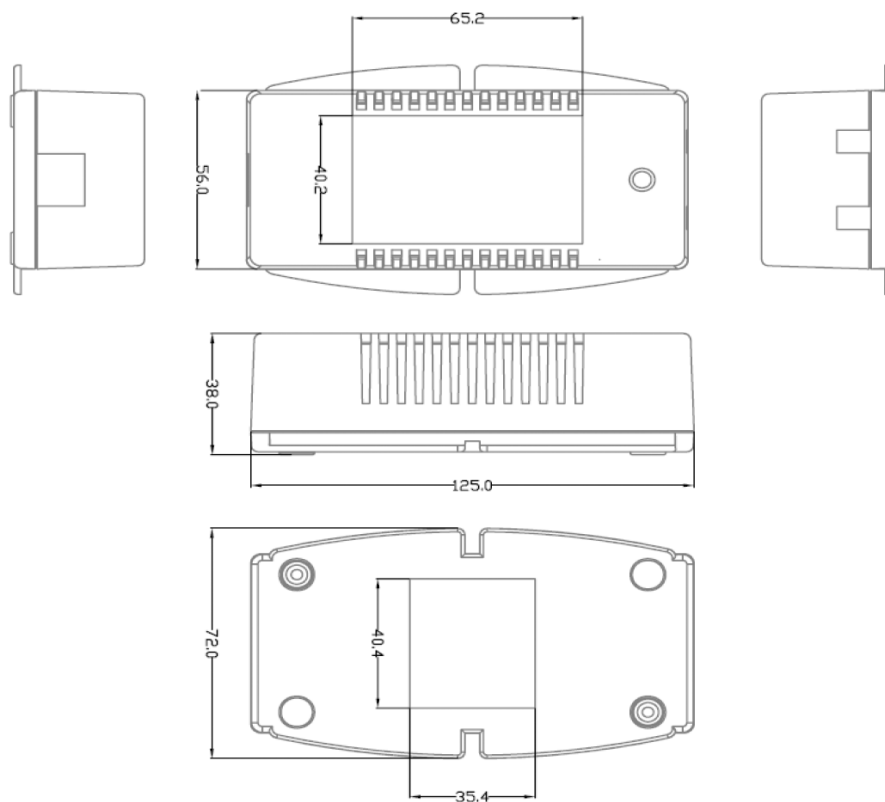
<https://www.globtek.com/ds/8iVLGjvEFfL/ExEre4DQ27h.html>

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ENCLOSURE



Indicator

GREEN LED = 802.3at

RED LED =802.3af or other power supply(40V ~ 58V)

CONNECTORS & PINOUT DEFINITION:

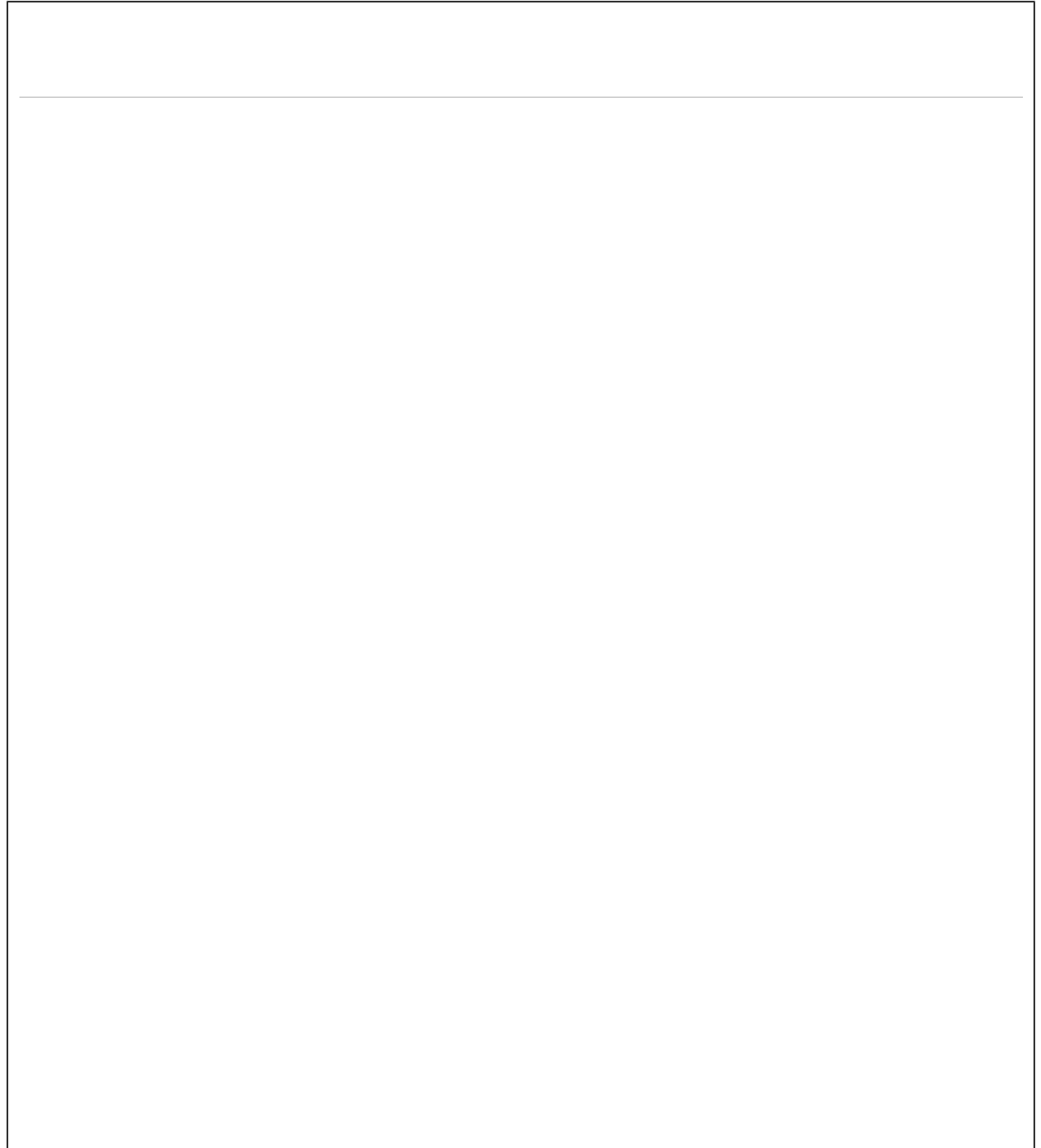
Power-Hub RJ45 Input Socket (per channel) data & Power-Connected to DTE

RJ-45 Input (Data & Power)			RJ-45 Output (Data Only)	
Pin	Symbol	Description	Symbol	Description
1	BI_DA+	Data Pair A+	BI_DA+	Data Pair A+
2	BI_DA-	Data Pair A-	BI_DA-	Data Pair A-
3	BI_DB+	Data Pair B+	BI_DB+	Data Pair B+
4	+Vdc + BI_DC+	power(+)+Data Pair C+	BI_DC+	Data Pair C+
5	+Vdc + BI_DC-	power(+)+Data Pair C-	BI_DC-	Data Pair C-
6	BI_DB-	Data Pair B-	BI_DB-	Data Pair B-
7	-Vdc + BI_DD+	power(-)+Data Pair D+	BI_DD+	Data Pair D+
8	-Vdc + BI_DD-	power(-)+Data Pair D-	BI_DA+	Data Pair A+

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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GT-91082-24-4012	12 V	3.34	40.08	RFQ
GT-91082-24-4024	24 V	1.67	40.08	RFQ

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SPECIFICATIONS

A) ELECTRICAL SPECIFICATIONS:

INPUT :

- 1.1 Input Voltage: DC 40V to DC 58V NORMAL= 48V
- 1.2 Under Voltage Lockout: DC 29.5 ~ 32V Stare Voltage = 38V ~ 40V

OUTPUT :

- 1. Maximum load: for 12V -3.34A, for 24V - 1.67A
- 2. Minimum Load: 0.1A
- 3. Load regulation: 5%
- 4. Line regulation: 1%
- 5. Ripple:1%
- Noise: 5%
- Ripple & Noise bandwidth is from DC to 20Mhz. Terminated With a 47uF Capacitor and 0.1uf MPE Capacitor of Proper Polarity.

EFFICIENCY : 82% min @48Vin dc

PROTECTION

- 1. Short Circuit Protection
- output Short GND Terminal will not damage the Power Supply and will

Auto-Reset.

- 2. Operation frequency : 70KHZ
- 3. Isolation Voltage : 1500Vdc
- 4. Isolation Resistance :100M ohms (min)
- 5. Input identify Resistance : 25K ohms
- 6. Maximum Capacitive Load : 470UF@12V , (24V = 100UF)

OTHER

- 1. Operation Temperature: -25 - +50°C
- 2. Storage Temperature: -40 - +85°C
- 3. Operation Humidity: 5% - 90% 45°C
- 4. Cooling: Free air cooling
- 5. SIZE : 125*72*38 (L*W*H)m/m

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DERATING CURVE

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INPUT CONFIGURATION**PROPRIETARY INFORMATION**

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Approvals

Logo	Description
	Attention Mark / Refer to operating manual for operating and service instructions
	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
	Indoor Use Only - Mark is on the label or Molded in the case
 GlobTek, Inc.	JAPAN TUV Rheinland-PSE GlobTek Inc to J60950-1(H26) , J55022(H22),J3000(H25).Please follow the procedure listed in the following link for proper import to Japan: 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
 10276	Ukraine UKRSepr (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