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Model:GT-91083	April 27, 202	
GT-91083		
Information		
Model Number	GT-91083	
Description	GT-91083, ICT/ITE Power Supply, Desktop/External, Gigabit Power over Ethernet (IEEE802.3af PoE PSE), , Input Rating: 40 - 58VDC, , Output Rating: 25 Watts, Power rating with convection cooling (W) , 12, 24V in 0.1V increments, Approvals: China RoHS; WEEE; VCCI; Ukraine; RoHS; PSE;	
Model Picture		
Agency Documents		
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0Oa000000MmYHjEAN	
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0Oa000000MmYHjEAN	
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	
Туре	Desktop/External
Technology	Gigabit Power over Ethernet (IEEE802.3af PoE PSE)
Category	ICT/ITE Power Supply
Input Voltage	40 - 58VDC
I/P Amps (A)	0.4A
Wattage (W)	25.0
Vout Range (V)	12, 24
Efficiency Level	
Ingress Protection	
Size (mm)	85*78*36 (L*W*H) include bracke

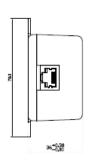


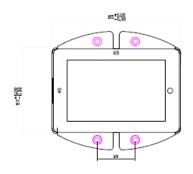
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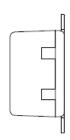
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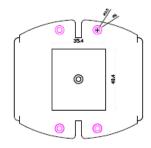
# ENCLOSURE

Model:GT-91083









### Indicator

Green LED indicates work as 802.3at Model. RED LED indicates work as 802.3af Model

#### **CONNECTORS & PINOUT DEFINITION:**

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



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RJ-45 Input (Data & Power)		
Pin	Symbol	Description
1	BI_DA+, Vin A+/-	Data Pair A+, Feeding power A+/-
2	BI_DA-, Vin A+/-	Data Pair A-, Feeding power A+/-
3	BI_DB+, Vin A+/-	Data Pair B+, Feeding power A+/-
4	BI_DC+, Vin B+/-	Data Pair C+, Feeding power B+/-
5	BI_DC-, Vin B+/-	Data Pair C-, Feeding power B+/-
6	BI_DB-, Vin A+/-	Data Pair B-, Feeding power A+/-
7	BI_DD+, Vin B+/-	Data Pair D+, Feeding power B+/-
8	BI_DD-, Vin B+/-	Data Pair D-, Feeding power B+/-
9	Shield	Connector shielding

# 6.2 Power Output & Data -Connected to DTE

RJ-45 Output (only Data)		
Pin	Symbol	Description
1	BI_DA+	Data Pair A+
2	BI_DA-	Data Pair A-
3	BI_DB+	Data Pair B+
4	BI_DC+	Data Pair C+
5	BI_DC-	Data Pair C-
6	BI_DB-	Data Pair B-
7	BI_DD+	Data Pair D+
8	BI_DD-	Data Pair D-
9	Shield	Connector shielding

## Note:

1. the model is isolated design, the output +/- or input +/- can be shorted to ground (FG).





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RATING TABLE				
Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GT-91083-06-2512	12 V	2.08	24.96	RFQ
GT-91083-06-2524	24 V	1.1	26.40	RFQ



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## **SPECIFICATIONS**

## A) ELECTRICAL SPECIFICATIONS:

#### INPUT:

1.1 Input Voltage: DC40V to DC60V NORMAL=56V

1.2 Under Voltage Lockout: DC 31 ~ 32V Stare Voltage =-33V ~ 35.5V

#### **OUTPUT:**

1. Maximum load: for 12V -2.1A, for 24V - 1.1A

2. Minimum Load: 0.1A 3. Load regulation: 5% 4. Line regulation: 1%

5. Ripple:1% 6. Noise: 5%

Note 1: Ripple & Noise bandwidth is from DC to 20Mhz. Terminated With a 47uF Capacitor and 0.1uf MPE Capacitor of Proper Polarity.

Note 2: to match up PSE

EFFICIENCY: 86% min @-48Vin dc

#### **PROTECTION**

1. Short Circuit Protection

output Short GND Terminal will not damage the Power Supply and will Auto-Reset.

Over Load Protection is auto-recovery.

2. Operation frequency: 150KHZ

3. Isolation Voltage: 1500Vdc

4. Isolation Resistance :100M ohms (min)

5. Input Set class Resistance: 25K ohms

6. Maximum Capacitive Load: 470UF (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: 85\*78\*36 (L\*W\*H)mm (include bracket)

6. MTBF: 87K hours (Calculated per MIL-HDBK-217F)



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DERATING CURVE	







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INPUT CONFIGURATION	
Description	

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Approvals	
Logo	Description
$\triangle$	Attention Mark / Refer to operating manual for operating and service instructions
30	CHINA SJ/T 11364-2014, China RoHS Chart: <a href="http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%205-20-22.pdf">http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%205-20-22.pdf</a>
凸	Indoor Use Only - Mark is on the label or Molded in the case
Glob Tek, 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: <a href="https://www.globtek.com/r2/Szj4Vb">https://www.globtek.com/r2/Szj4Vb</a>
RoHS	Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863-EU (ROHS-3) <a href="http://www.ce-mark.com/Rohs%20final.pdf">http://www.ce-mark.com/Rohs%20final.pdf</a>
10276	Ukraine UKRSepro (Document: <a href="www.globtek.com/html/iso_certificates/GT_Ukraine.pdf">www.globtek.com/html/iso_certificates/GT_Ukraine.pdf</a> )
VEI	Japan: Voluntary Control Council for Interference (VCCI)
X	WEEE: Complies with EU 2012/19/EU ( <a href="http://ec.europa.eu/environment/waste/weee/index_en.htm">http://ec.europa.eu/environment/waste/weee/index_en.htm</a> ) Mark is on the label or Molded in the case