

AC/DC Converter

TGCM550-G



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Features

- 400/450 Watt convection cooled (115/230VAC)
- · 600 Watt forced air or peak power
- 5VSB Output

Regulated Converter

- · Redundant operation; active current sharing
- Remote sensing, CTRL ON/OFF, PMBus™
- IEC60601-1 2x MOPP insulation, BF-ready

TGCM600-L

Description

TGCM600-L/OF Series AC/DC power supply units are designed for operation in natural convection and in systems with certain airflow ventilation to deliver 400 to 600Watt output power. Safety approvals to Medical IEC 60601-1-2 and to IT and industrial IEC 62368 standards and operation with worldwide input voltage conditions from 80 to 275Vac in altitudes up to 5000m make these chassis mount units ideal for global use in medical, industrial or IT related automation processes. For enhanced reliability requirements of applications redundant operation is supported with active current sharing. An additional 5V Standby output powers housekeeping circuitry to control remote on/off and monitoring functions which are available via PMBusTM I²C interface. EN55032 class "B" EMC compliance is achieved without any external components which underlines the versatility of these power supplies.

Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated

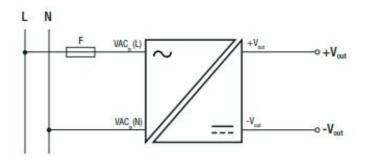
BASIC CHARACTERISTICS					
Parameter	Condition	Min.	Тур.	Max.	
Nominal Input Voltage	50/60Hz	100VAC		240VAC	
Operating Range (2,3)	47-63Hz DC	80VAC 120VDC		275VAC 300VDC	
Input Current	80VAC 120VDC			9A 5.7A	
Inrush Current	cold start at 25°C			20A	
Input Frequency Range	AC Input	47Hz		63Hz	
Minimum Load		0%		1	
Power Factor	EN61000-3-2, Class A compliant		0.9		
Start-up Time	MAIN ON CTRL ON			2.5s 150ms	
Rise Time			-	150ms	
Hold-up Time			20ms		
Periodic and Random Deviation (PARD)	20MHz BW, 10µF Tan. and 1µF MLCC			1%p-p	

Notes: Note4: No proper operation with DC input voltage Note5: The products were submitted for safety files at AC-Input

operation Note6: Refer to "Line Deratin



Protection Circuitm



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ENVIRONMENTAL					
Parameter	Condition		Value		
Operating Temperature Range	refer to "Rating Graphs of continuous Operation"	T _{BASE} temperature	-20°C to +70°C		
Operating Altitude (8)	according to 62368-1 according to 60601-1		5000m 3000m		
Operating Humidity	non-condensing		95% max.		
Pollution Degree			PD2		
Vibration (non-operating)	2.09Gr.m.s., 5Hz to 500Hz, 20 minutes per side (3 planes)		according to IEC 60068-2-6		
Shock (non-operating)	50G, 11ms, 3 shocks for each direction		according to IEC 60068-2-27		
MTBF	according to Telcordia SR-332, Issue 3, 25°C ambient, 90% confidence level		500 x 10 ³ hours		
Design Lifetime (capacitor)	nom. Vin, 80% load, 45°C ambient		87.6 x 103 hours		

Dimension Drawing (mm)

