

AC/DC Converter

TGCM550-G



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Features

Regulated Converter

- 300W baseplate-cooled, fan-less operation
- 550W peak power or forced air rating
- Industrial, household and medical 2MOPP ready
- Standby power consumption <0.5W
- Aux Output: 5VSB / 1A
- Signals: remote sensing and ON/OFF control

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Description

The TGCM550 Series is designed to support up to 300 Watt continuous output power without fan cooling. The compact 5" x 3" baseplate design enables direct heat dissipation through metal housings in the application. Up to 550 watts are available to drive dynamic loads for several seconds of peak power or with forced air for even longer time frames. A fan output is on board as standard as well as a 5V/1A VSB output for applications with housekeeping circuits and on/off control. A wide input range of 80 to 264VAC, up to 5000m operating altitude and international safety agency certifications make the series worldwide suitable for BF-rated applied parts, household and industrial ITE applications.

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

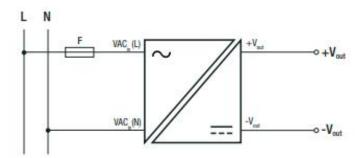
Parameter	Condition		Min.	Тур.	Max.
No load Power Consumption		5 355 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			2W
Standby Power	main output OFF, VSB Output unloaded				0.5W
Input Frequency Range	AC input		47Hz		63Hz
ErP Lot 6 Standby Mode Conformity (VSB Output Load Capability)	Input Power= 1W (main output= standby mode)				450mW
Minimum Load			0%	2	
Power Factor	115VAC 230VAC		0.98 0.95	0.99 0.97	
Start-up Time	main output VSB Output	115VAC/230VAC 115VAC/230VAC		400ms 140ms	
Rise Time	main output VSB Output	115VAC/230VAC 115VAC/230VAC	15ms 5ms		
Hold-up Time	main output VSB Output	115VAC/230VAC, 550W 115VAC/230VAC		15ms 130ms	
Output Ripple and Noise (5)	COLUL DIU C OFFIC	main output	1% of Vout nor		Vout nom. max.
	20MHz BW @ 25°C	VSB Output			120mVp-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	on	Value			
Operating Temperature Range	refer to below graphs (valid for /OF and /ENC)		-40°C to +70°			
Temperature Coefficient			±0.02%/K			
Operating Altitude (11)			5000m			
Operating Humidity	non-condensing		20% - 90% RH max.			
Pollution Degree			PD2			
Shock			250m/s², 6ms; 3 times, each along x, y, z axes			
Vibration			90-200Hz, 10m/s2; 3.5min./1cycle, 5 periods, each along x, y, z axes			
MTBF	according to MIL-217F Method 2 Components Stress Method	+25°C (forced air cooling) +45°C (forced air cooling)	200 x 10 ³ hours 50 x 10 ³ hours			

Dimension Drawing (mm)

