

AC/DC Converter

TGC04-GA



CE FC



RoHS C (U) US

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TGC04-GA

Features

- Universal input 85-305VAC
- 4W PCB mount package
- <75mW No load power consumption

Regulated Converter

- Ultra low profile, compact size
 -40°C to +85°C Operating temperature
- Continuous SCP, OCP, OVP
- IEC/EN/UL60950 & EN60335-1 certified, EN55032 Class A



Description

The TGC04-GA series are low cost AC/DC power supplies, ideal for PCB mounted, compact, board level industrial applications. They feature universal AC input voltage range, regulated and short-circuit -proof isolated DC outputs, low standby power consumption and -40°C to +85°C operating temperature range. The RAC04-GA have a built-in Class A / FCC Part 15 EMC filter, are certified to IEC/EN/UL60950-1 and EN60335 and are certified to IEC/EN/UL62368 and EN61558 safety standards and come with a three year warranty.

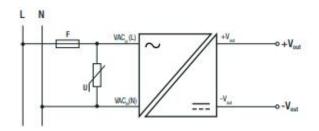
Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated

Parameter	Condition		Min.	Тур.	Max.	
Internal Input Filter					.,,,,	Pi-ty
Input Voltage Range (3.4)	no	nom. Vin = 230VDC				305VAC 430VDC
Input Current		115VAC 230VAC			85mA 55mA	
Inrush Current	cold start at 25°C	115VAC 230VAC				10A 20A
No load Power Consumption						75mW
Input Frequency Range	AC Input			45Hz		65Hz
Minimum Load				0%		
Power Factor	115VAC 230VAC				0.55 0.42	
Start-up Time	1	115VAC, 230VAC			30ms	1s
Hold-up time	115VAC 230VAC				5ms 40ms	
Internal Operating Frequency	100%	load at nominal Vin			65kHz	
Output Ripple and Noise ^{ma}	20MHz BW	0°C to 85 °C	5Vout 9Vout 12Vout 24Vout			100mVp-p 120mVp-p 150mVp-p 240mVp-p
		-30 °C to 0 °C	5Vout 9Vout 12Vout 24Vout			200mVp-p 250mVp-p 250mVp-p 300mVp-p

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



Protection Circuitm



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

ENVIRONMENTAL						
Parameter	Condi	Value				
Operating Temperature Range	@ actural commotion D trails	full load refer to "Derating Graph"		-40°C to +70°C		
	@ natural convection 0.1m/s			-40°C to +85°C		
Maximum Case Temperature		S		+100°C		
Temperature Coefficient				0.03%/K		
Operating Altitude				3000m		
Operating Humidity	non-condensing			5% - 95% RH		
Pollution Degree				PD2		
Shock				20G/11ms pulse, 3 times at each x, y, z axes		
Vibration				10-150Hz, 2G 10min./1cycle, period 60min. along x,y,z axes for 6 cycles		
Design Lifetime	+25°C +50°C			90 x 10 ³ hours 62 x 10 ³ hours		
MTBF	according to MIL-HDBK-2	17F, G.B.	+25°C +50°C	>910 x 10 ³ hours >198 x 10 ³ hours		

Dimension Drawing (mm)

