

AC/DC Converter

TGC01W-GA POWER



CE FC





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TGC01W-GA

Features

- Universal input 85-264VAC
- <150mW No load power consumption
- Class II installations (without FG)

Regulated Converter

- -25°C to +80°C Operating temperature
- Continuous SCP, OCP
- EN/IEC/UL60950, EN/IEC/UL62368 & EN60335-1 certified



Description

The TGC01W-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 -25°C to +80°C operating temperature range. The TGC01W-GA have a built-in Class A / FCC Part 15 EMC filter, are certified to EN60335, EN60950 and EN62368 safety standards and come with a three year warranty.

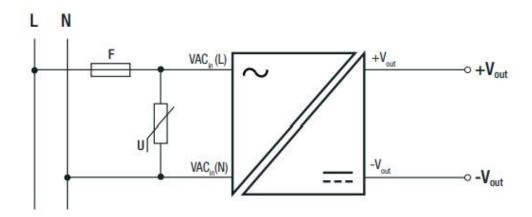
Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated

Parameter	Condition			Min.	Typ.	Max.
Internal Input Filter						Pi-type
Input Voltage Range (4,5,6)	nom. Vin= 230VAC			85VAC	230VAC	264VAC
Input Current	115VAC 230VAC				25mA 18mA	30mA 20mA
Inrush Current	cold start at 25°C	115VAC 230VAC				30A 40A
No load Power Consumption	6	700				150mW
Input Frequency Range				47Hz		63Hz
Minimum Load				0%		
Power Factor	115VAC, 230VAC			0.4		0.6
Start-up Time				1s 2s		
Hold-up time				18ms 80ms		
Internal Operating Frequency	100% load at nominal Vin				65kHz	
Output Ripple and Noise	20MHz BW	0°C to 80 °C	5Vout 12Vout			100mVp-p 200mVp-p
		-25 °C to 0 °C	5Vout 12Vout			200mVp-p 300mVp-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



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

ENVIRONMENTAL				
Parameter	Condition			Value
Operating Temperature Range	@ natural convection 0.1 m/s	full load		-25°C to +70°C
	@ natural convection 0.1m/s	refer to "Derating Graph"		-25°C to +80°
Maximum Case Temperature				+120°C
Temperature Coefficient				0.03%/K
Operating Altitude (10)				4000m
Operating Humidity	non-condensing			5% - 90% RH max.
Pollution Degree				PD2
Shock				10-150Hz, 2G 10min./1cycle, period 60min. each along x,y,z axes
Vibration	according to MIL-STD-202G		500	20G/11ms pulse, 3 times at each x, y, z axes
MTBF (11)	according to MIL-HDBK-21	7F, method 2	+25°C +70°C	1691 x 10 ³ hours 424 x 10 ³ hours

Dimension Drawing (mm)

