

AC/DC Converter

TGROL



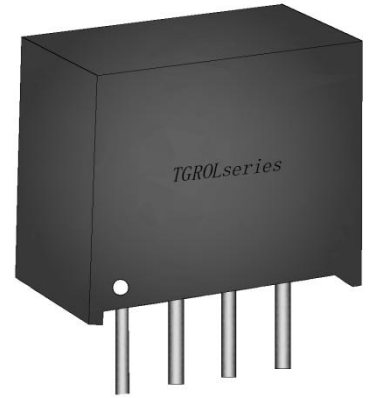
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Features

- Industry standard pinout
- 1kVDC/1s or 2kVDC/1s basic isolation
- UL94V-0 package material
- Optional continuous short circuit protection
- Fully encapsulated
- Efficiency up to 87%

Unregulated Converters



TGROL

Description

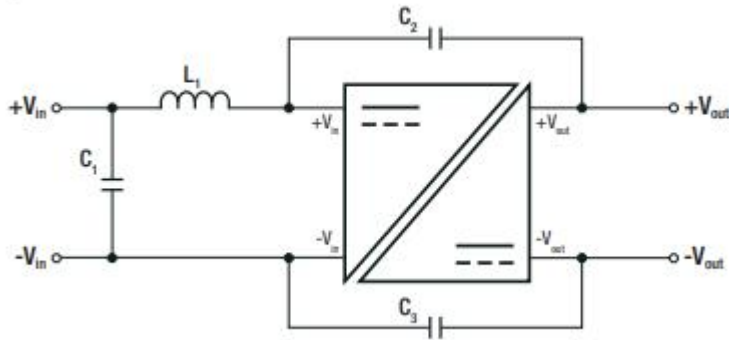
The TG-ROL AC/DC converters are typically used in general purpose low power isolation and voltage matching applications, and feature a full industrial operating temperature range of -40°C to +85°C without derating.

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

BASIC CHARACTERISTICS				
Parameter	Condition	Min.	Typ.	Max.
Input Voltage Range			±10%	
Minimum Load ⁽¹⁾		0%		
Internal Operating Frequency		20kHz	54kHz	
Output Ripple and Noise	20MHz BW			100mVp-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 @ $T_a = 25^\circ\text{C}$, nom. V_{in} , full load and after warm-up unless otherwise stated)

ENVIRONMENTAL			
Parameter	Condition		Value
Operating Temperature Range	full load @ free air convection (see graph)		-40°C to $+85^\circ\text{C}$
Operating Altitude			2000m
Operating Humidity	non-condensing		95% RH max
Pollution Degree			PD2
MTBF	according to MIL-HDBK-217F, G.B.	$+25^\circ\text{C}$	958×10^3 hour
		$+85^\circ\text{C}$	200×10^3 hour

Dimension Drawing (mm)

