

AC/DC Converter

TGC10E-K/277



CE FC





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TGC10E-K/277

Features

- Extra wide input range 100/115/240/277VAC
- Overvoltage category OVC III (2000m)

Regulated Converter

Operating temperature: -40°C to +90°C

Operating altitude up to 5000m (OVC II)

- EMC compliant without external components
- No load power consumption <100mW max.



Description

The economy itemized TGC10E-K/277 series are extra compact 1.8"x1" encapsulated PCB-mount AC/ DC modules with a wide input operating range of 85 ro 305Vac and come with international safety certifications for industrial, AV and ITE as well as household standards. These Power Supply modules with certifications to overvoltage category OVC III environments operate in a temperature range of -40°C to +90°C with up to 5000m operating altitude and offer fully protected single outputs as well as EMC class B compliance without the need of any external components.

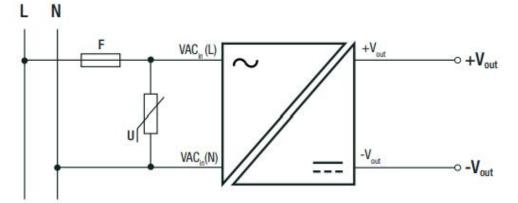
Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated

BASIC CHARACTERISTIC	S				
Parameter	Condition		Min.	Тур.	Max.
Nominal Input Voltage	50/60Hz		100VAC		277VAC
Operating Range (2,3)	47-63Hz DC		85VAC 120VDC		305VAC 430VD0
Input Current	115VAC 230VAC 277VAC				200mA 100mA 80mA
Inrush Current	cold start at 25°C	115VAC 230/277VAC			20A 40A
No load Power Consumption				75mW	100mW
ErP Standby Mode Conformity (Output Load Capability)	Input Power= 0.5W 1.0W			0.3W 0.7W	
Input Frequency Range	AC Input		47Hz		63Hz
Minimum Load			0%		
BASIC CHARACTERISTICS					
Parameter	Condition		Min.	Typ.	Max.
wer Factor		115VAC 230VAC		0.6	
Start-up Time					50ms
Rise Time		0.00		0.0	40ms
Hold-up Time		115VAC 230VAC 277VAC			
Internal Operating Frequency	100% los	100% load at nominal Vin		80kHz	
Output Ripple and Noise 49	20MHz BW				150mVp-

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



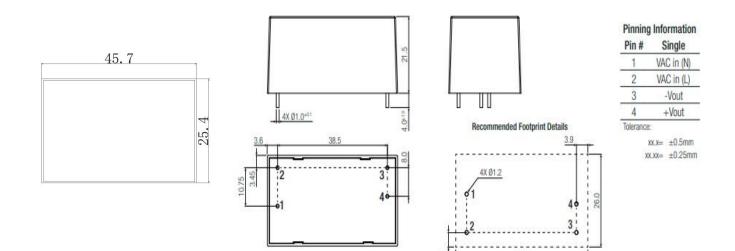
Protection Circuitm



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

ENVIRONMENTAL						
Parameter	Co		Value			
Operating Temperature Range	@ natural convection 0.1m/s	full load refer to	"Derating Graph"	-40°C to +65°C		
Maximum Case Temperature				+110°C		
Temperature Coefficient				±0.02%/K		
Operating Humidity	non-o	95% RH max.				
Operating Altitude				5000m (0VCII) 2000m (0VCIII)		
Pollution Degree				PD2		
Vibration				10-500Hz, 2G10min./1cycle, period 60min. each along x,y,z axes		
MTBF	according to MIL-HDBK-217	F, G.B.	+25°C +40°C	1710 x 10 ³ hours 1460 x 10 ³ hours		

Dimension Drawing (mm)



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