

AC/DC Converter

TGCM230-G



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Features

Regulated

Converter

160W baseplate-cooled, fan-less operation

230W peak power or forced air rating

Universal AC input range (80~264VAC)

Standby power consumption <0.5W

Wide operating temperature range (-40°C to +80°C)

· Household, ITE and medically 2MOPP certified

· Operating altitude up to 5000m

TGCM230-G

Description

The TGCM230-G Series is designed to support up to 160 watts continuous output power without fan cooling. The compact 4"x2" baseplate design enables direct heat dissipation through metal housings in the application. Up to 230 watts are available to drive dynamic loads for several seconds of peak power or with forced air for even longer time frames. A smart fan output is on board as standard. A wide input range of 80 to 264VAC, up to 5000m operating altitude, 4kVAC isolation and international safety agency certifications make the series worldwide compliant for medical 2 MOPP, household and industrial ITE applications.

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

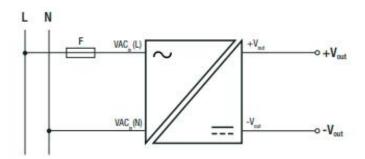
BASIC CHARACTERISTICS	_	Press SSS			
Parameter	Coi	ndition	Min.	Тур.	Max.
Nom. Input Voltage			100VAC		240VAC
Input Voltage Range (5)			80VAC	230VAC	264VAC
input voitage nange			120VDC		370VDC
Input Current	115VAC				3A
input ourient	230VAC		24		1.1A
Inrush Current	115VAC				40A
illusti curent	230VAC				60A
No load Power Consumption				300mW	500mW
Input Frequency Range	AC input		47Hz	50Hz	63Hz
ErP Lot 6 Standby Mode Conformity					300mW
(Output Load Capability)					
(v	12Vout		11.4VDC		12.6VDC
	24Vout		22.8VDC		25.2VDC
Output Voltage Adjustability R	36Vout		34.2VDC		37.8VDC
	48Vout		45.6VDC		50.4VDC
	54Vout		51.3VDC		56.0VDC
Minimum Load			0%		Ú.
Power Factor	115VAC		0.98	0.99	
	230VAC		0.95	0.97	
Start-up Time	115/230VAC			0.5s	
Rise Time				10ms	1
Hold-up Time		230W		8ms	
	445,000,000	200W		10ms	
	115/230VAC	160W		16ms	
		130W		25ms	
Output Ripple and Noise (7)	20MHz BW @ +25°C		1% of Vout nom. max		

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	Co	ndition	Value			
Operating Temperature Range	refer to d	erating graphs	-40°C to +80°C			
Temperature Coefficient			±0.05%/K			
Operating Altitude (11)			5000m			
Operating Humidity	non-c	condensing	5% - 90% RH max.			
Pollution Degree			PD2			
MTBF	according to MIL-HDBK-217F, G.B.	+25°C (forced air cooling) +50°C (forced air cooling)	200 x 10 ³ hours 60 x 10 ³ hours			

Dimension Drawing (mm)

