

# TED1000

## Thermoelectric Cooler Controller



- Up to 600 W
- Up to 13 A TEC current
- Up to 48 V TEC voltage
- Optional  $\pm 48\text{V} / \pm 13\text{A}$  bipolar
- Digital PI temperature control
- RS232 PC interface

Parameter	Unit	Value
<b>Specifications</b>		
Temperature Range	$^{\circ}\text{C}$	0 ... 50
Temperature Stability	K	<0,1
Temperature Adj. Accuracy	K	0,1
Control Loop		PI
<b>Output Cooler</b>		
TEC Output Power	W	600 W
TEC Current	A	0 ... 13 optional 0 ... $\pm 13$
TEC Voltage	V	0 ... 48 optional 0 ... $\pm 48$
TEC Current Limit Range	A	0 ... 13
Ripple	mA	100
Fan Voltage Adjustment Range (Manual)	%	0 ... 100 (12 V)
Fan Current	A	Max. 1
<b>Temperature Sensors</b>		
Sensor Types		Thermistor / PT100 / PT1000
Thermistor		NTC, 10 k $\Omega$ @ 25 $^{\circ}\text{C}$ , Current: 100 $\mu\text{A}$
<b>Power Supply</b>		
Line Voltage	V	85 - 264 AC, Auto Ranging
Frequency	Hz	50 - 60
Power Consumption	W	800
Fuses Rating for 115 V AC		8 A Slow Acting (5x20 mm)
Fuses Rating for 230 V AC		4 A Slow Acting (5x20 mm)
<b>General Characteristics</b>		
Ambient Temperature, Operating	$^{\circ}\text{C}$	0 ... 30
Relative Humidity, Operating	%	30 ... 70
Weight	kg	4,3
Dimensions	mm <sup>3</sup>	310 x 140 x 220 (W x H x D)