

DC/DC CONVERTER

MODEL VTC305MS SERIES STEP-UP CONVERTER

Electrical (Input)		
Input Volts (DC)	10.5-18	10.5-28
Input Amps (max)	30	
Input Fuse (AGC)	20 x 2 Amp	
Noise on Input	< 25 mV	
Low Input Voltage Alarm	10.5 VDC	
Current Limit	30 Amps in	
Electrical (Output)		
Output Nominal (op)	12	24
Output Volts (DC)	Input - 1V or 13.5 to 17.0 Whichever is greater	Input - 1V or 24.0 to 27.5 Whichever is greater
Output Current (Amps)	* 27	
Output Crowbar	Programmed Output Volts x 1.2	
Output Ripple & Noise	< 25 mV	
Low Output Voltage Alarm	Programmed Output Voltage minus 2.5 VDC	
Transient Response	< 1V for 50% Surge	
Regulation (Line & Load)	< +/- 0.5%	
Duty Cycle	Continuous 100% for 24 hrs per day	
Efficiency	> 90% @ Maximum Output	
Environment Specification		
Operating Temp. Range	-40°C to +55°C @ maximum output Derate Linearly 2.5% per °C from 55°C	
Humidity	0 - 95% Relative Humidity (non-condensing)	
Audible Noise	NONE Ødb @ 3 ft	
Typical Service Life	> 10 yrs. (87,600 hrs)	
Isolation	Any Input or Output to Case 500 VDC Input to Output – Common Negative	
Mechanical Specification		
Length	9.1 in / 23.1 cm	
Width	7.8 in / 19.8 cm	
Height	2.5 in / 6.4 cm	
Material	Marine Grade Aluminium	
Finish	Black Anodize / Powder Epoxy Coat	
Fastenings	All 18-8 Stainless Steel	
Weight	4.0 lb / 1.8 kg	
Connections	Four contact output terminals	
Warranty	2 years	

*The actual output current capability depends upon the input/output voltage ratio. To obtain the actual output current capability at any given input voltage, use the following formula:

$$\text{Output Amps} = \text{Input Volts} / \text{Output Volts} \times 27$$

For example, at 11 VDC in and 13.6 VDC out, the output current = $11 / 13.6 \times 27 = 22.8$ amps

Note: Specifications are subject to change without notice.



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