



# DC/DC CONVERTER

# MODEL VTC300MS SERIES

Electrical (Input)		
Model Number	VTC300-32-12	VTC300-32-24
Input Volts (DC)	20-45	30-45
Input Amps (max)	20	22
Input Fuse (AGC)	25A	
Noise on Input	< 25 mV	

Electrical (Output)		
Output Nominal (op)	12	24
Output Volts (DC)	13.6	27.2
Output Amps	25 cont. / 30 peak	20 cont. / 25 peak
Output Adjustment	± 0.5	
Output Crowbar	16.0 ± 0.5V	32.0 ± 1.0V
Output Ripple & Noise	< 25 mV	
Transient Response	< 1V for 50% Surge	
Regulation (Line & Load)	< +/- 0.5%	
Duty Cycle	Peak 20% for 10 min maximum Continuous 100% for 24 hours per day	
Efficiency	> 90% @ Maximum Output	
EMC	Designed to meet MIL-STD 461E	

Environment Specification	
Operating Temp. Range	-55° to +50°C @ maximum output Derate Linearly 2.5% per °C from 50°C
Humidity	0 - 95% Relative Humidity (non-condensing) with standard conformal coating
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	#12 AWG Input Wires (Positive & Negative) Four contact output terminal
Vibration	Designed to meet MIL-STD810F, Method 514-3 and Cat-1 Proc 1
Interconnect	IPC-A-610
Warranty	2 years

Note: Specifications are subject to change without notice.



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