

FULLY ISOLATED DC/DC CONVERTERS

MODEL VTC615 Series

Electrical (Input)				
Nominal (ip)	24	32	48	72
Actual (Vdc)	20-35	**28 - 45	40-60	65-90
Input Amps (max)	39.5	30	20.3	12.6
Input Fuse (ATC)	3 x 15	2 x 20	1 x 25	1 x 15
Noise on input	< 50 mV			

** Actual startup is at 29 VDC input, depending on model

Electrical (Output)				
Output Nominal (op)	12	24	48	
Output Volts (DC)	13.6 ± 0.05	27.2 ± 0.05	54.4 ± 0.05	
Output Amps	40 cont. / 45 peak	20 cont. / 25 peak	10 cont. / 12.5 peak	
Output Crowbar	16.0 ± 0.5V	32.0 ± 1.0V	63.9 ± 2.0V	
Output Adjustment	± 1.0 V			
Switching Frequency	60 ± 2.0 KHz			
Idle Power	< 10 Watts			
Output Ripple & Noise	< 50 mV			
Transient Response	< 2V for 50% Surge			
Regulation (Line & Load)	< +/- 0.5%			
Duty Cycle	Peak 20% for 10 min max Continuous 100% for 24 hours per day			
Efficiency	> 85% @ Maximum Output			

Environment Specification	
Operating Temp. Range	-25°C to +40°C @ maximum output Derate Linearly 2.5% per °C from 40°C (Optional -40°C extra wide temp. operation avail.)
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	Input-Case & Input-Output 1500VDC (500V @ 24V I/P) Output-Case 500VDC (1500VDC @ 48V O/P)

Mechanical Specification	
Length	14.5 in / 36.8 cm
Width	10.2 in / 25.9 cm
Height	4.3 in / 10.9 cm
Clearance	1 inch (2.5 cm) all around
Material	Marine Grade Aluminium
Finish	Black Anodize / Powder Epoxy Coat
Fastenings	All 18-8 Stainless Steel
Weight	7.0 lb / 3.2 kg
Connections	Four contact output terminals
Warranty	Three years parts and labour

Note: Specifications are subject to change without notice.



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