



DC-DC Step Up Converters

Model
VTC305-12-24
27 Amps

Design Features

- Shock and vibration tolerance
- Mount in almost any location
- Compact and light weight
- Reverse polarity protection
- Current limiting circuit
- Over voltage crowbar circuit
- Non-isolated for negative ground system
- Ultra quiet low EMI operation
- Rugged marine grade aluminum case

Applications

- RV vehicles, Heavy trucks, Buses
- Marine vehicles
- Land mobile radios, CB radios
- 12 Volt lighting systems
- AM / FM sound systems
- Solar / Alternative power systems
- Any 12V or 24V equipment

3 YEAR WARRANTY

MODEL NO.	VTC305-12-24
INPUT VOLTAGE RANGE	10.5 - 18 VDC
INPUT CURRENT (Maxium)	30A
INPUT FUSE	20 x 2A AGC
OUTPUT (Nominal)	24V
OUTPUT VOLTAGE (DC)	Input - 1V or 24.0 to 27.5 Whichever is greater
OUTPUT CURRENT*	27A
CURRENT LIMIT	30 Amps in
ISOLATION INPUT - OUTPUT	Common negative
ISOLATION CASE TO INPUT OR OUTPUT	> 500 VDC
AUDIBLE NOISE	None 0db @ 3 ft
NOISE ON INPUT	< 25 mV
OUTPUT RIPPLE & NOISE	< 25 mV
LOW INPUT VOLTAGE ALARM	10.5 VDC
LOW OUTPUT VOLTAGE ALARM	Programmed output voltage minus 2.5 VDC
OUTPUT CROWBAR	Programmed output volts x 1.2
TRANSIENT RESPONSE	< 1V for 50% surge
REGULATION (Line and load)	< +/- 0.5%
DUTY CYCLE (Continuous)	100% for 24 hrs per day
OPERATING TEMPERATURE RANGE	-25°C to 40°C / -13°F to 104°F, de-rate linearly 2.5% per 0°C from 40°C / 32°F from 104°F
HUMIDITY (Non-condensing)	Maximum 95%
EFFICIENCY	> 90% @ maximum output
CONNECTIONS	Four contact output terminals
MATERIAL	Marine grade aluminium
FINISH	Black anodize / power epoxy coat
FASTENINGS	All 18-8 stainless steel
DIMENSIONS, MM (L x W x H)	231 x 198 x 64
DIMENSIONS, INCHES (L x W x H)	9.1 x 7.8 x 2.5
WEIGHT, KG/LB	1.8 / 4.0

* 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: Output Amps = Input Volts/Output Volts x 27. For example, at 10 VDC IN and 27 VDC OUT, the output current = 10 Amps.

NOTE: Specifications are subject to change without notice

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