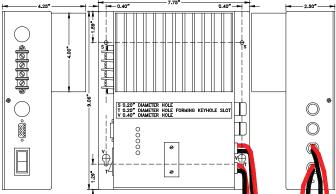


DC/DC STEP UP CONVERTERS

MODEL VTC605 SERIES





Description

Step up a 12 VDC battery to between 13.5 and 17.0 or 24.0 and 27.5 VDC in 0.5 VDC increments (via 3 position DIP switch), or stabilize a 12 or 24 VDC power system.

Safety features include reverse input protection, low input voltage alarm, low output voltage alarm, over temperature shutdown and alarm, a dry contact alarm relay output and output overvoltage crowbar. If the input voltage exceeds the regulated output voltage, the unit simply passes the voltage through with full LC filtering and a single schottky diode drop (0.5 VDC or less). Optional features include remote panel monitoring with On/Off control.

Applications include temporarily brightening 12 volt headlights or work lights, increasing voltage into an automotive or marine ignition system for hotter spark and/or prevention of failures due to voltage drop during engine start, stabilizing 12V and 24 VDC power systems in marine, automotive or aeronautical environments and more.

Benefits

- Ultra-Quiet
- Power sensitive electronics without interference
- Rugged & Reliable
- Ensure years of safe and trouble free operation

Design Features

- · Vibration proof output voltage adjustment by 3 position DIP switch
- Audible & visual indicators for constant current, low input voltage, low output voltage & over-temperature
- Extremely rugged and well suited for marine and other demanding environments
- High tolerance for shock and vibration
- Ultra-quiet low EMI operation
- Current limiting protection
- Reverse input protection
- Output over-voltage crowbar
- Dry contact output fail relay
- Remote control option
- Wide-Temperature operation available
- Parallel output diodes available
- Conformal Coating and/or Harsh Environment Ruggedization available
- 3 year parts and labour warranty

Applications

- Marine Electronics Displays
- Mobile Offices (TV and Radio Vans)
- Automotive / RV
- Electric Utilities and Substations
- Base Station Power (Radio & Telecommunications)
- Industrial Controls (OEM Applications)
- Field Work / Construction Sites
- Solar / Alternative Power Systems
- Any 12 or 24V Equipment

An ISO9001 and AS9100 Registered Company Battery Chargers • Inverters • Power Supplies • Voltage Converters

DC/DC STEP UP CONVERTERS

MODEL VTC605 SERIES

10.5-18	10.5-28
50	
25 x 2 Amp	
< 50 mV	
10.5 VDC	
50 Amps in	
12	24
Input - 1V or 13.5 to 17.0 Whichever is greater	Input - 1V or 24.0 to 27.5 Whichever is greater
* 45	
Programmed Output Volts x (1.3 ± 1%)	
< 50 mV	
Programmed Output Voltage minus 2.5 VDC	
< 1V for 50% Surge	
<+/- 0.5%	
Continuous 100% for 24 hrs per day	
Continuous 100% for 24 hrs per day > 90% @ Maximum Output	
	avail.)
> 90% @ Maximum Output -25° to +40°C @ maximum output Derate Linearly 2.5% per °C from 40°C	
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	50 25 x 2 Amp < 50 mV 10.5 VDC 50 Amps in 12 Input - 1V or 13.5 to 17.0 Whichever is greater * 45 Programmed Output Volts x (1.3 ± 1%) < 50 mV Programmed Output Voltage minus 2.5 VDC < 1V for 50% Surge

^{*}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 45For example, at 10.5 VDC in and 13.6 VDC out, the output current = $10.5/13.6 \times 45 = 34.7 \times 45 = 34.7$

Note: Specifications are subject to change without notice.



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