



Rev. 10/16/12

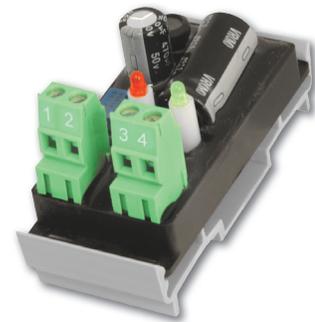
# VC350A Voltage Converter

E5

Accessories for HVAC/R

## Overview

- Compact & Cost-Effective 350 mA Unit
- Self-resetting Thermal Fuse
- Operation & Fault LED Indicators
- Ruggedized Circuitry
- Fixed or Adjustable Outputs
- Output Protected Against Overload and Accidental Short Circuit



VC350A mounted in optional snaptrack

BAPI's voltage converter is a cost-effective way of converting 24 VAC or VDC to 5, 12, 15 or 24 VDC for use on peripheral devices that require DC voltage. The converter is available with a 350 mA output. The converter is very compact and designed to fit into standard 2.75" snaptrack.

Although most BAPI room units can run on 24 VAC power, converting to DC power eliminates the AC power "noise" which can affect the room sensor readings. BAPI's tests show that fluctuating and inaccurate signal levels are possible when AC power wiring is present in the same cable as the signal lines. To minimize the AC voltage noise, the DC converter must be mounted as close to the controller as physically possible. Do not mount the converter at the sensor end of the wire, the AC will still couple into the sensor signal if you do. All fixed outputs of 5, 10, 12 or 15 VDC are adjustable  $\pm 10\%$ . The adjustable model (-ADJ) has an output of 5-24 VDC.

Part Number	Description
BA/VC350A-5.....	5 VDC at 350 mA
BA/VC350A-10.....	10 VDC at 350 mA
BA/VC350A-12.....	12 VDC at 350 mA
BA/VC350A-15.....	15 VDC at 350 mA
BA/VC350A-ADJ ....	5-24 VDC (adj.) at 350 mA

Note: Add -TRK to the end of the part number (BA/VC350A-5-TRK) to include a 1.25" length of 2.75" snaptrack

See end of Section E for list pricing.

## 350mA EZ Voltage Converter

BAPI also makes a 350mA EZ Voltage Converter. The revolutionary mounting system allows for DIN Rail, Snaptrack or surface mounting. (See page E2 of this section.)



## Specifications

Output Voltage: 5 to 24 VDC @ 350 mA

Recommended Input Voltage: 18 to 28 VAC, 24 VDC

Input Voltage Limits:

Model of Unit	Minimum (VAC/VDC)	Maximum (VAC/VDC)	Input Current@ Min Input Volts (AC/DC)
5V	5.0/9.0	28.0/35.0	5.2 VA/305 mA
10V	10.0/14.7	28.0/35.0	8.3 VA/315 mA
12V	12.0/16.9	28.0/35.0	9.5 VA/318 mA
15V	15.0/20.5	28.0/35.0	11.2 VA/320 mA
ADJ (24V)	24.0/31.0*	28.0/35.0	16.7 VA/325 mA

\*Depends on output voltage

Environmental Operation Range:

- 0 to 95% RH non-condensing
- 40 to 149°F (-40 to 65°C) 350 mA @ any output voltage
- 40 to 158°F (-40 to 70°C) 350 mA @ 5 VDC,
- 330 mA @ 10 VDC,
- 280 mA @ 12 VDC,
- 224 mA @ 15 VDC,
- 140 mA @ 24 VDC

Environmental Storage Range: -40 to 176°F (-40 to 80°C)

Wiring: 4 wires, 16 to 22 gauge

Rectification: Half-Wave Rectified

Grounding: AC & DC Ground are Common

