

LOW VOLTAGE ISOLATOR / REGULATOR

- 18- 36 VDC Input
 - 24 VDC output at 125 mA
 - Input to output isolation of 500 V.
 - Low output ripple (50 mV typical)
 - Wide temperature range of -20 to 70 C operation
 - Input power has over current and transient voltage suppression
 - Output is short circuit protected with auto recovery.
- Very compact 1.25" x 1.5" x 0.78" H encapsulated module can fit into almost any wiring conduit box
 - DC power present diagnostic LED
 - Flying leads for easy installation

DESCRIPTION

The Model 30 is a Low Voltage Isolator / Regulator. It accepts a wide input DC voltage of 18 to 36 VDC and outputs a regulated and isolated 24 VDC at 125 mA maximum. Input to output voltage isolation is 500 volts. The unit itself does not generate any significant heat and requires no external cooling. It is encapsulated and very compact at 1.25" x 1.5" x 0.78" in size. The entire unit can be dropped into any wiring conduit box for installation.

The Model 30 allows local power isolation between centrally powered instrumentation. The input power has transient voltage suppression as well as over current. This provides protection to the unit under most fault conditions.

Output voltage ripple is low at 50 mV typical. A diagnostic LED on the output indicates the availability of DC power. Output has short circuit protection and will recover automatically when the short is removed. Please contact the factory for other input or output voltage ranges.

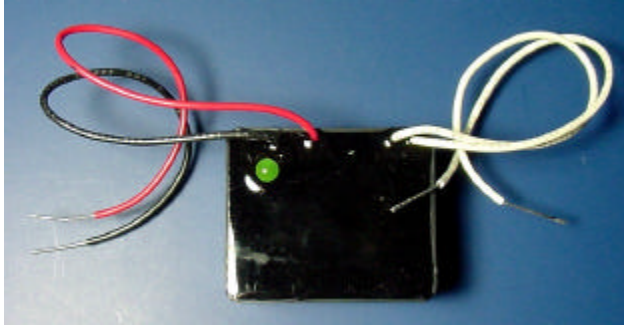
WIRING, INSTALLATION, AND MOUNTING

All wiring is done via two input and two output wires. The two white wires are used to connect the input voltage and they are polarity insensitive. A red wire and a black wire are used to connect the DC output of the supply. The red wire is the positive output and the black is the negative.

Since the entire unit is encapsulated it can be simply dropped into any conduit box or enclosure without regard to mounting hardware. The switching power supply design

MODEL 30

generates very little heat and requires no external fans. A green LED indicates DC power available.



SPECIFICATIONS

Operating Environment	-20 to 70 C, 0-90% RH non-condensing
Isolation	500 Volts input to output
Input Power	18-36 VDC with typical input to output efficiency of 74%. Polarity insensitive wiring.
Output Voltage	24 VDC (+/- 3% maximum)
Output Voltage Ripple	50 mV peak to peak typical.
Output Current	125 mA maximum
External Dimension	1.25" W x 1.5" L x 0.78" H
Enclosure Type / Material	Black ABS thermoplastic 94_VO rating.
Protection	Input power is fused and transient voltage protected. Fuse automatically resets when fault is removed.

ORDERING INFORMATION

0030	Model 30 Low Voltage Isolator / Regulator		
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Code	Input Voltage Option
-24	24 VDC nominal

Code	Output Voltage Option
-24	24 VDC

Code	Output Current Rating
-012	125 mA

0030	-24	-24	-012	Model 30 Low Voltage DC Regulator
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