

ETSI_{Inc.} SVRB-X Instructions

The SVRB-X is a simple, low cost , linear voltage regulator board designed for low current loads using higher available Voltage sources. Ideal for point of use power. It accepts regulated DC, unregulated DC or up to 24V AC power input Voltages. Available in ten different output voltages.

DC/AC Input:

Connect any supply voltage from 6VDC to 24VDC or 6VAC to 24VAC. The Input voltage must be at least 5 volts higher than the desired output voltage. The input voltage is polarity insensitive.

Output

This output can supply up to 1 amp regulated output power. The output is thermal overload and short circuit protected. Be sure not to exceed 2 watts maximum across the regulator. Calculate the power using the formulas below.

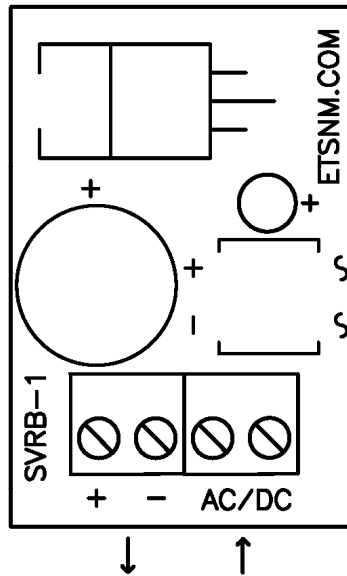
Power dissipation calculations

Power dissipation DC = $(V_{in} - V_{out}) \times \text{load current}$

Power dissipation AC = $((V_{in} \times 1.33) - V_{out}) \times \text{load current}$

Load current is the amount a device draws. For example, a passive Infrared typically draws 50-100ma. Look at the spec sheet of the device you wish to power up for this value.

SPECIFY OUTPUT VOLTAGE UPON ORDERING OPTIONS ARE:
3.3, 5, 6, 8, 9, 10, 12, 15, 18, 24



VOUT: REGULATED OUTPUT VOLTAGE VIN: AC / DC INPUT. 35VDC MAX, 24AC MAX
1AMP MAXIMUM, 2WATT DISSIPATION

POWER DISSIPATION DC = $(V_{IN} - V_{OUT}) \times \text{LOAD CURRENT}$.
POWER DISSIPATION AC = $((V_{IN} \times .1.33) - V_{OUT}) \times \text{LOAD CURRENT}$.
DO NOT EXCEED 2 WATTS MAXIMUM IN EITHER CASE.

Figure 1.

Warranty

All ETS products carry a one year parts and labor warranty. This warranty does not cover damages as a result of misuse, improper handling of the unit or exposure to extreme temperatures or moisture. At its discretion, ETS reserves the right to repair or replace this unit under the conditions of the warranty. If you experience problems with your equipment call ETS at: 505-888-3923 to obtain a return authorization number. Equipment requiring repair beyond the warranty period or units that have been damaged or are not covered under the warranty can be repaired by ETS for a minimal cost under most conditions.

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