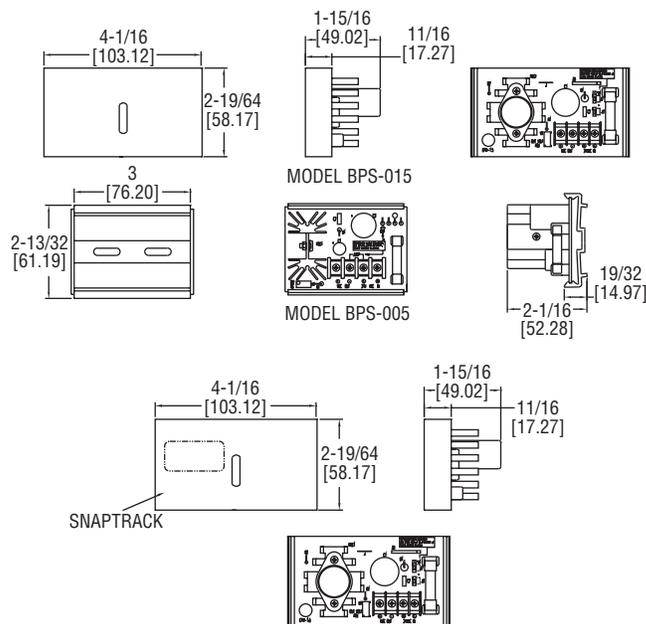




Series BPS Low Cost DC Power Supply

Specifications - Installation and Operating Instructions



The Series BPS Building Automation Power Supply is used to convert 24 VAC to a regulated DC power source for transmitters with 4 to 20 mA outputs. The output voltage can be field adjusted from 1.5 VDC to 29 VDC using a potentiometer. The 1 A or 3 A fuse (depending on model) protects the power supply from over-current conditions. The snap-on bracket can be quickly surface mounted to any flat surface.

CAUTION To prevent overheating, the output current must not exceed the ratio of the output voltage to the input voltage times the rated current.

Example:
For output voltage set at 5 VDC, the output current should not exceed 313 mA.
 $(5V/24V) \times 1.5A = 0.313A$

Isolation:
If the DC ground is connected to the AC ground, the fuse will open.
If the AC and DC circuit grounds cannot be isolated, move the shorting jumper from J1 to J2 and add a shorting jumper to J3. In this case the output current is limited to 400 mA

NOTICE For applications where the input and output share the common or ground, add a jumper on BPS-005 between "G" on the input and "-" on the output and cut one of the leads on diode (D3). On BPS-015, move jumper from "J1" to "J2" and short jumper "J3". Output is reduced to 200 mA on the BPS-005 and 400 mA on the BPS-015.

SPECIFICATIONS

Input: 24 VAC/VDC 50/60 Hz.

Output: 24 VDC (full wave rectified and regulated) adjustable 1.5 to 29 VDC.

Maximum Current Output: 1.5 A or 0.5 A (depending on model).

Over-Current Protection: 1 A fuse.

Operating Temperature: 32 to 130°F (0 to 55°C).

Humidity Limits: 95% (non-condensing).

Weight: 0.4 lb.

Agency Approval: RoHS.

WIRING DIAGRAM

