

## Power Supply PS1060

### KEY FEATURES AND BENEFITS

- Universal AC input
- Short circuit, overload, over voltage protection
- Air convection cooling
- DIN rail installation
- Built in DC OK active signal
- NEC class 2/ LPS compliant
- Power on LED indicator
- No load power consumption <0.75W
- 100% full burn-in tested



Part Number  
32101-9

### PRODUCT DESCRIPTION

The PS1060 product is a slim-design, DIN rail mounted Class I switching power supply featuring fully isolated plastic cases, extended operating temperatures from -20° to 70°C and 88% efficiency.

Standard features include short circuit, overload, and over voltage protection, no load power consumption, and DC OK signal for monitoring status of the power supply unit.

# SPECIFICATIONS



## HARDWARE

- Enclosure
  - UL Compliant Fully Isolated Plastic Housing
- Installation Method
  - DIN RAIL (35MM)
- DIN Rail Spec
  - TS35/7.5 or TS35/15
- LED Indicators
  - Output Voltage Status
- Dimensions
  - 3.9" x 1.6" x 3.5"
- Product Weight
  - 0.61 lb

## INPUT SPECIFICATIONS

- Connector Type
  - Screw Terminals
- AC Voltage Range
  - 85 - 264VAC
- Frequency Range
  - 47 - 63Hz
- DC Voltage Range
  - 120 - 370VDC
- Efficiency (Typ.)
  - 88%
- AC Current (Typ.)
  - 1.8A / 115VAC
  - 1A / 230VAC
- Cold Start Inrush Current
  - 30A / 115VAC
  - 60A / 230VAC
- Leakage Current
  - < 1mA / 240VAC
- No Load Power Consumption
  - < 0.75W

## OUTPUT SPECIFICATIONS

- Connector Type
  - Screw Terminals
- DC Voltage
  - 24VDC
- Rated Current
  - 2.5A
- Current Range
  - 0 - 2.5A
- Rated Power
  - 60W
- Voltage Adjustable Range
  - 24 - 30VDC
- Voltage Tolerance
  - ±1%
- Ripple and Noise (Max.)
  - 150mVp-p
- Output Load Derating
  - 60% of full load at 70°C
- Line Regulation
  - ±1%
- Load Regulation
  - ±1%
- Set-Up, Rise Time
  - 500ms, 30ms / 230VAC
  - 500ms, 30ms / 115VAC at Full Load
- Hold Up Time (Typ.)
  - 50ms / 230VAC
  - 20ms / 115VAC at Full Load
- DC OK Active Signal
  - Relay Contact Rating: 30V/1A

## PROTECTION SPECIFICATIONS

- Short Circuit/ Overload
  - Overload Power*
    - 105 - 150% of rated output power, 60W
  - Overload Protection Type*
    - Constant Current Limiting
    - Recovers automatically after fault condition is removed
- Over Voltage
  - Rated Voltage*
    - 31.2 - 36VDC
  - Over Voltage Protection Type*
    - Shutdown output voltage, re-power on to recover

## ENVIRONMENTAL SPECIFICATIONS

- Air temperature
  - System On*
    - 20 to 70° C
  - System Off*
    - 40 to 85° C
- Operating Humidity (non-condensing)
  - 20% to 90%
- Vibration
  - Component :*
    - 10 - 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes
  - Mounting :*
    - Compliance to IEC60068-2-6
- Mean Time Between Failures
  - 34.2 years

## REGULATORY APPROVALS

- Emissions
  - European Standard EN61204-3
  - European Standard EN55022
  - Class A Limit
  - IEC 1000-3-2/EN61000-3-2: Harmonic
  - Class A Limit
  - IEC 1000-3-2/EN61000-3-2: Flicker
- Immunity
  - European Standard EN61204-3
  - European Standard EN55024:
  - IEC 1000-4-2/EN61000-4-2: Electrostatic Discharge (ESD)
  - IEC 1000-4-3/EN61000-4-3: Radiated Radio-Frequency (RF)
  - IEC 1000-4-4/EN61000-4-4: Fast Transient/Burst
  - IEC 1000-4-5/EN61000-4-5: Surge
  - IEC 1000-4-6/EN61000-4-6: Conducted Disturbance
  - IEC 1000-4-8/EN61000-4-8: Magnetic field
  - IEC 1000-4-11/EN61000-4-11: Dips and Voltage Variations
- Safety
  - UL60950
- Other
  - European Standard: 2002/95/EC Directive (RoHS)
- Regulatory Approvals
  - CE Mark, RoHS Compliant, CUL

## EXPORT INFORMATION

- Packaged Shipping Weight
  - 0.70 lb
- Package Dimensions
  - 4.3" x 1.75" x 4.1"
- UPC Code
  - 7-56727-32101-9
- Country of Origin
  - Taiwan
- ECCN
  - 4A994
- Schedule B Number
  - 8504.40.6007

## APPLICATIONS

- Traffic and Transportation
- Industrial Automation
- Building Automation
- Power Generation
- Material Handling
- Military

## ORDERING INFORMATION

32101-9 Power Supply PS1060 (24V, 60 watts)

## PRODUCT SUPPORT & SERVICE INFORMATION

**Warranty Information**  
Comtrol offers a 30-day satisfaction guarantee and 3-year limited warranty.

**Sales Support**  
+1.763.494.4100  
sales@comtrol.com

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