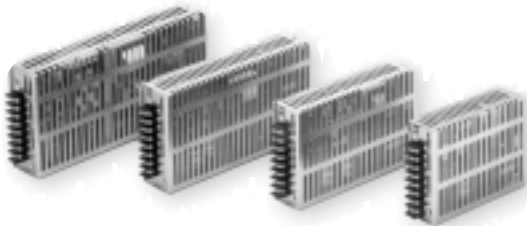




SX100U&150U

100 & 150 Watt, 120 VAC Input Fully Enclosed Switching Power Supply



FEATURES

- ✔ **REMOTE SENSE**
- ✔ **OVERVOLTAGE PROTECTION**
- ✔ **OVERCURRENT PROTECTION**
- ✔ **HIGHLY RELIABLE**
- ✔ **CONVECTION COOLED**
- ✔ **ON/OFF LED LIGHT**
- ✔ **ADJUSTABLE OUTPUTS**
- ✔ **3 YEAR CONTINUOUS USE WARRANTY**

SAFETIES / EMI



FCC-B
CISPR-B
VCCI-2

ELECTRICAL SPECIFICATIONS

All specifications are typical at nominal input, full load

INPUT SPECIFICATIONS

Input Voltage..... 85-132 VAC
 Input Frequency..... 50/60 Hz (47-63 Hz)
 Input Current..... 2.3A / 3.5A (typ)
 Inrush Current..... 14A /15A (typ)

OUTPUT SPECIFICATIONS

Output Voltage..... See chart
 Output Adjustment..... ±10%
 Efficiency..... 82 - 87%
 Over-Voltage Protection..... Shutdown 112-150% Output
 Over-Current Protection..... Over 105% (Automatic Recovery)
 Ripple and Noise..... 100-200 mVp-p
 Hold-Up Time..... 20 ms
 Line/Load Regulation..... See Chart
 Rise Time..... 300 ms max.
(at 25°C nominal output/input)
 Leakage Current..... 0.5 mA max.

GENERAL SPECIFICATIONS

MTBF.....>165,000 Hours
 Isolation Voltage
 Primary to Secondary.....AC 2000V
 Primary to Case.....AC 1500V
 Secondary to Case.....AC 500V
 Isolation Resistance..... Input-Output
 case 100 M-Ohms min.

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature 0°C ~ +60°C
 Derates linearly 2.5%/°C after 50°C
 Cooling..... Convection
 Temperature Coefficient..... 0.02%/°C
 Humidity..... 20-85% RH (non-condensing)
 Storage Temperature..... -20°C ~ +85°C
 Shock/Vibration..... 20G (3 Directions)

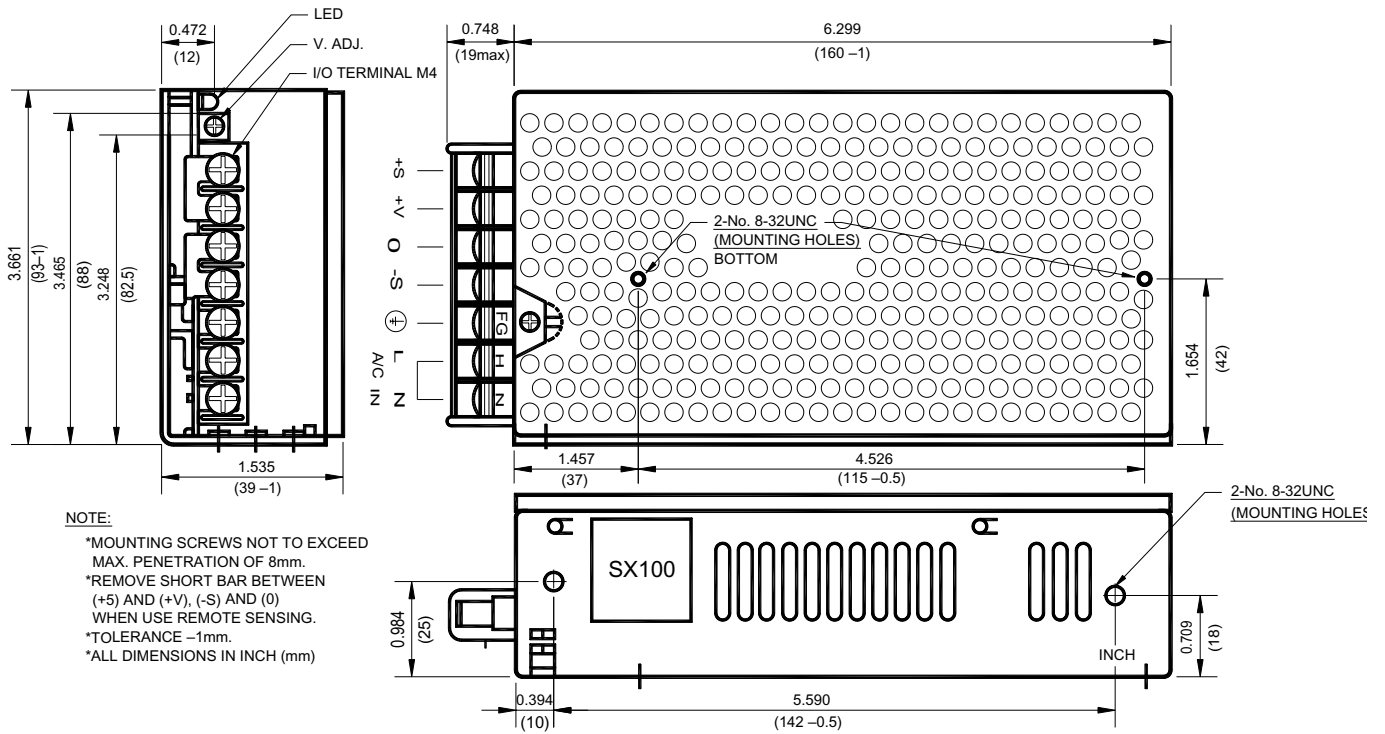
PHYSICAL SPECIFICATIONS

Metal Enclosed - Terminal Block

Series

| MODEL | OUTPUT VOLTAGE | OUTPUT CURRENT | EFFICIENCY (TYP) | LINE REGULATION | LOAD REGULATION | RIPPLE NOISE |
|-------------------|----------------|----------------|------------------|-----------------|-----------------|--------------|
| SX100U-05S | 5 VDC | 20.0 A | 82% | 10 mV | 20 mV | 100 mVp-p |
| SX100U-12S | 12 VDC | 8.6 A | 85% | 10 mV | 20 mV | 170 mVp-p |
| SX100U-15S | 15 VDC | 7.0 A | 86% | 10 mV | 20 mV | 170 mVp-p |
| SX100U-24S | 24 VDC | 4.4 A | 87% | 20 mV | 30 mV | 200 mVp-p |

SX100U



NOTE:

- *MOUNTING SCREWS NOT TO EXCEED MAX. PENETRATION OF 8mm.
- *REMOVE SHORT BAR BETWEEN (+5) AND (+V), (-S) AND (0) WHEN USE REMOTE SENSING.
- *TOLERANCE -1mm.
- *ALL DIMENSIONS IN INCH (mm)

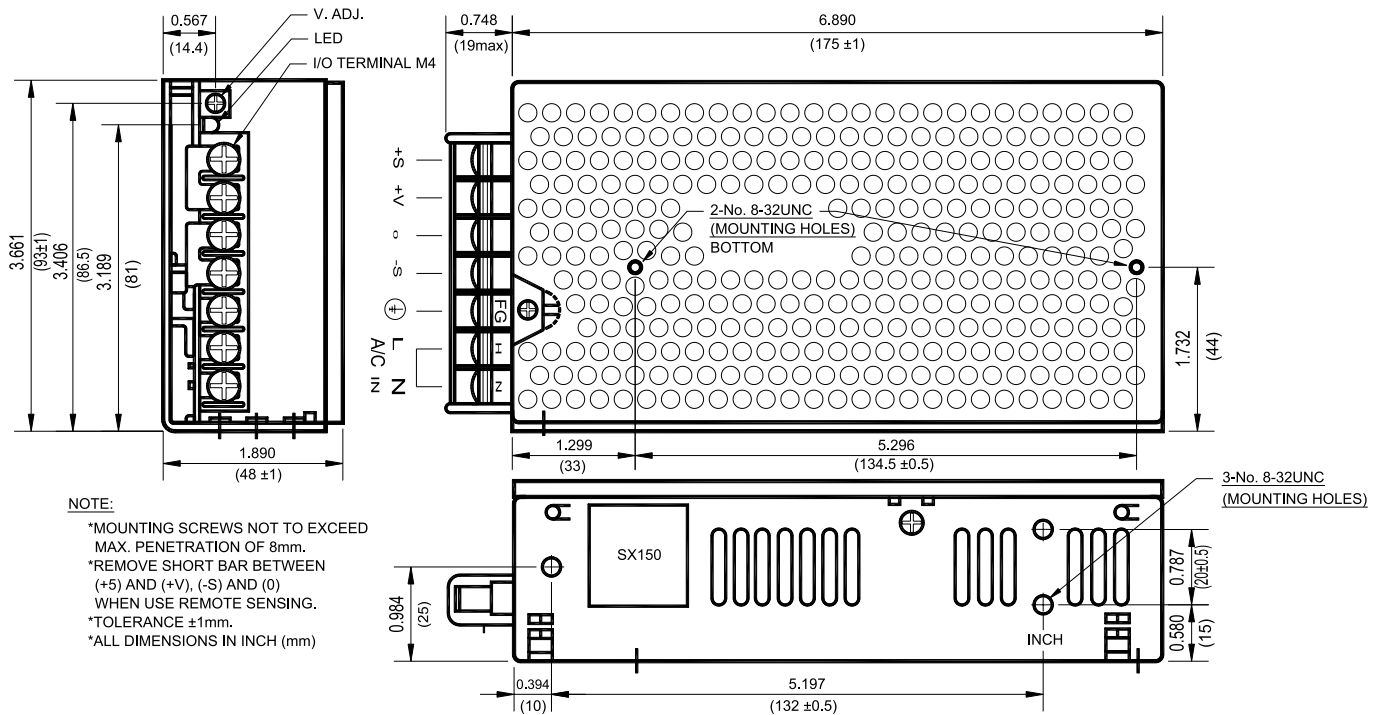
NOTE:

All specifications typical and nominal / full load and 25°C unless otherwise noted.
 Mounting screw length should not exceed 0.31 inches or 8 mm.
 Avoid sustained operation in overload or dead short conditions.
 Specifications subject to changes without notice.

- No. 8-32 mounting holes standard
- Dimensions in mm

| MODEL | OUTPUT VOLTAGE | OUTPUT CURRENT | EFFICIENCY (TYP) | LINE REGULATION | LOAD REGULATION | RIPPLE NOISE |
|-------------------|----------------|----------------|------------------|-----------------|-----------------|--------------|
| SX150U-05S | 5 VDC | 30.0 A | 82% | 10 mV | 30 mV | 100 mVp-p |
| SX150U-12S | 12 VDC | 12.5 A | 85% | 15 mV | 45 mV | 170 mVp-p |
| SX150U-15S | 15 VDC | 10.0 A | 86% | 15 mV | 45 mV | 170 mVp-p |
| SX150U-24S | 24 VDC | 6.5 A | 87% | 20 mV | 60 mV | 200 mVp-p |

SX150U



NOTE:
 *MOUNTING SCREWS NOT TO EXCEED MAX. PENETRATION OF 8mm.
 *REMOVE SHORT BAR BETWEEN (+S) AND (+V), (-S) AND (0) WHEN USE REMOTE SENSING.
 *TOLERANCE ±1mm.
 *ALL DIMENSIONS IN INCH (mm)

- No. 8-32 mounting holes standard
- Dimensions in mm

NOTE:
 All specifications typical and nominal / full load and 25°C unless otherwise noted.
 Mounting screw length should not exceed 0.31 inches or 8 mm.
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