



# 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)

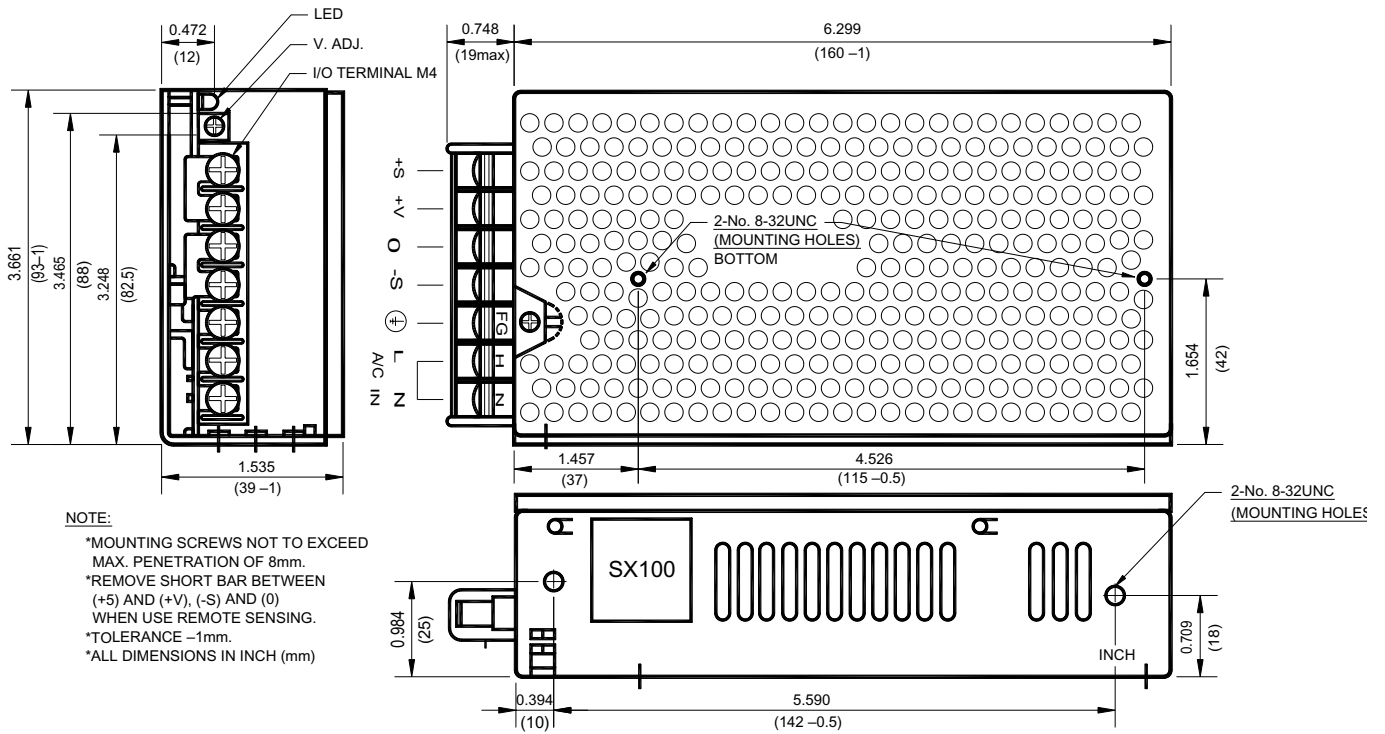
### PHYSICAL SPECIFICATIONS

Metal Enclosed - Terminal Block

# Series

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

## SX100U



**NOTE:**

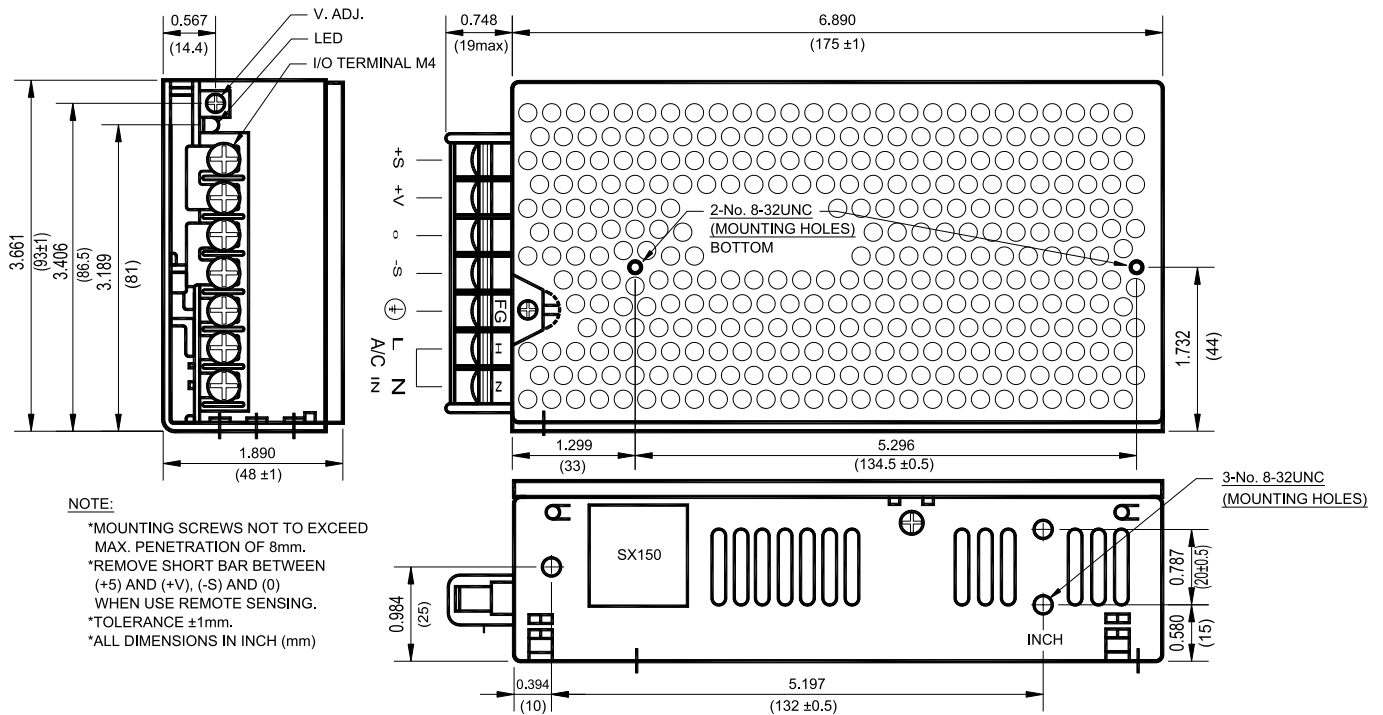
- \*MOUNTING SCREWS NOT TO EXCEED MAX. PENETRATION OF 8mm.
- \*REMOVE SHORT BAR BETWEEN (+5) AND (+V), (-S) AND (0) WHEN USE REMOTE SENSING.
- \*TOLERANCE -1mm.
- \*ALL DIMENSIONS IN INCH (mm)

**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
<b>SX150U-05S</b>	5 VDC	30.0 A	82%	10 mV	30 mV	100 mVp-p
<b>SX150U-12S</b>	12 VDC	12.5 A	85%	15 mV	45 mV	170 mVp-p
<b>SX150U-15S</b>	15 VDC	10.0 A	86%	15 mV	45 mV	170 mVp-p
<b>SX150U-24S</b>	24 VDC	6.5 A	87%	20 mV	60 mV	200 mVp-p

# SX150U



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

**NOTE:**  
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