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)

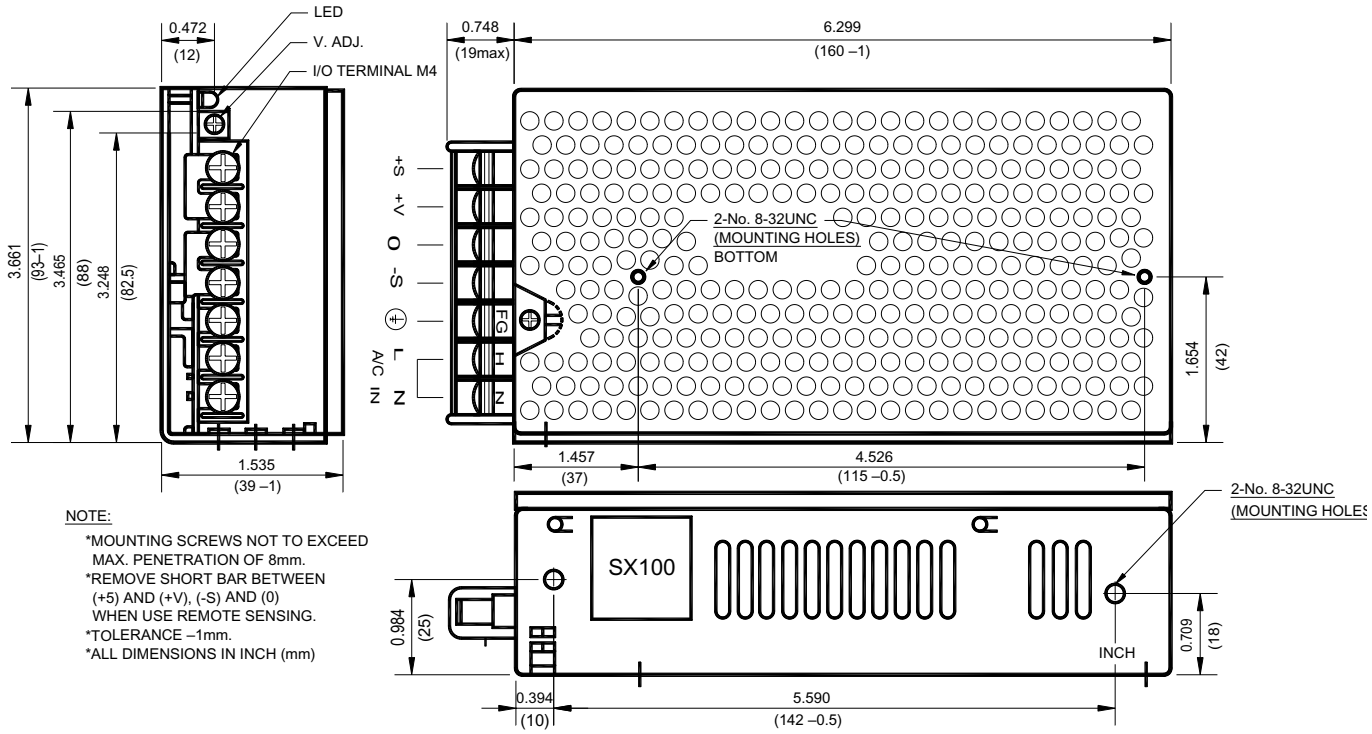
PHYSICAL SPECIFICATIONS

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)

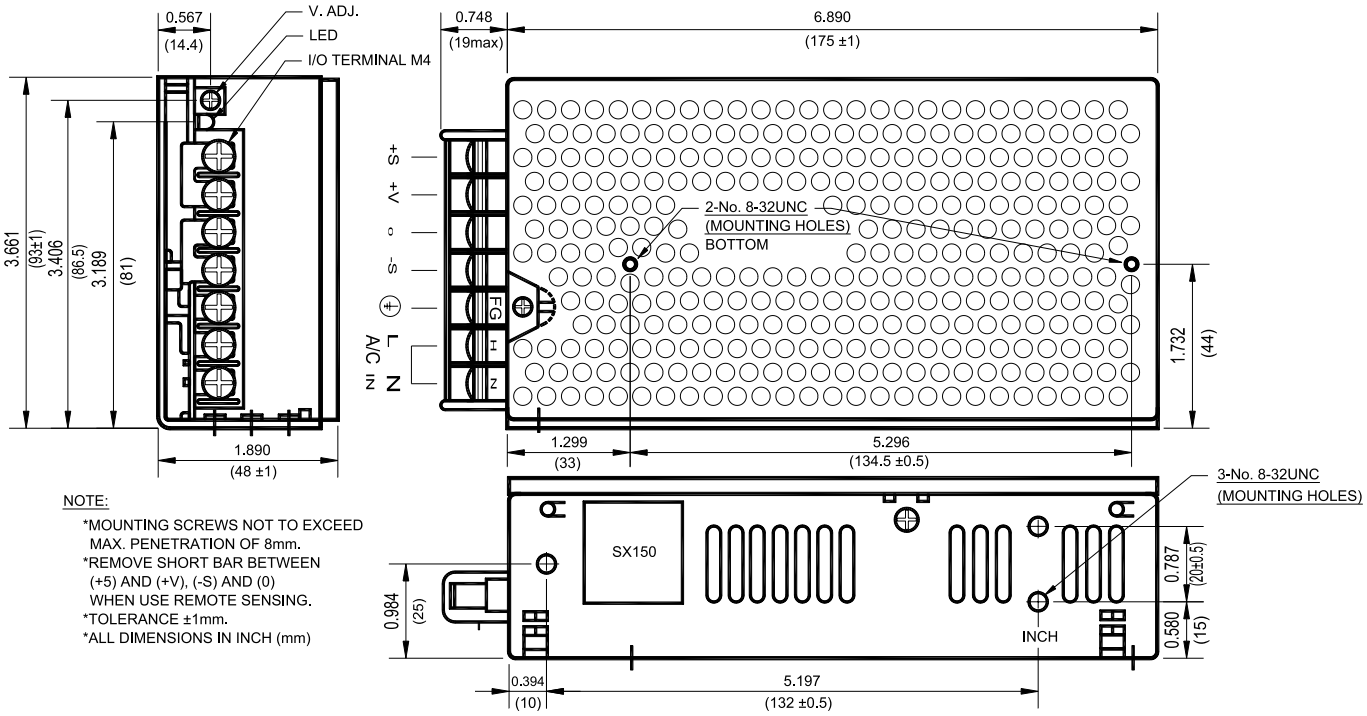
- No. 8-32 mounting holes standard
- Dimensions in mm

NOTE:

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

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



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

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