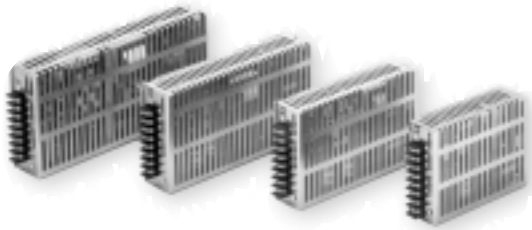




# SX50U

## 50 Watt, 120 VAC Input Fully Enclosed Switching Power Supply



### FEATURES

- ✓ **OVERVOLTAGE PROTECTION**
- ✓ **OVERCURRENT PROTECTION**
- ✓ **COMPACT SIZE / HIGH RELIABILITY**
- ✓ **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 (47-63Hz)
Input Current.....	1.1 A (typ)
Inrush Current.....	28 A (typ)

### OUTPUT SPECIFICATIONS

Output Voltage.....	See chart
Output Adjustment.....	± 10%
Efficiency.....	72-80%
Over-Voltage Protection.....	Zener Limiter
Over-Current Protection.....	Over 105% (Automatic Recovery)
Ripple and Noise.....	100-200 mVp-p
Hold-Up Time.....	20 mS (typ)
Line/Load Regulation.....	See Chart
Rise Time.....	100 mS max.
	(at 25°C nominal output / input)
Leakage Current.....	0.5 mA max.

### GENERAL SPECIFICATIONS

MTBF.....	>242,000 Hours
Isolation Voltage	
Primary to Secondary.....	AC 2000V
Primary to Case.....	AC 2000V
Secondary to Case.....	AC 500V
Isolation Resistance.....	Input - Output
	Case 100 M-Ohm 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 (not-condensing)
Storage Temperature.....	-20°C ~ +85°C
Shock/Vibration.....	20G (3 Directions)

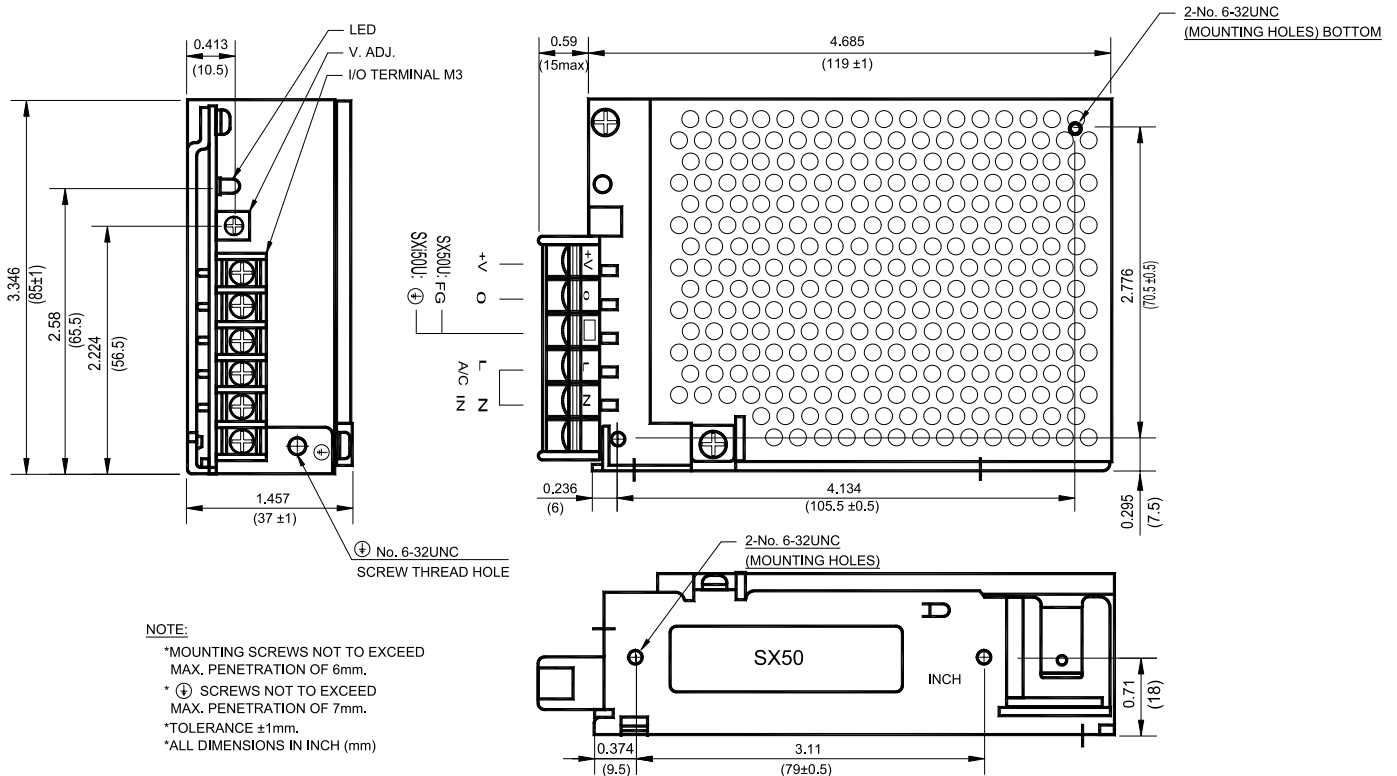
### PHYSICAL SPECIFICATIONS

Metal Enclosed - Terminal block

# Series

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	EFFICIENCY (TYP)	LINE REGULATION	LOAD REGULATION	RIPPLE NOISE
<b>SX50U-05S</b>	5 VDC	9.5 A	72%	25 mV	60 mV	100 mVp-p
<b>SX50U-12S</b>	12 VDC	4.2 A	78%	40 mV	120 mV	150 mVp-p
<b>SX50U-15S</b>	15 VDC	3.4 A	78%	40 mV	120 mV	150 mVp-p
<b>SX50U-24S</b>	24 VDC	2.2 A	80%	60 mV	160 mV	200 mVp-p

## SX50U



**NOTE:**  
 \*MOUNTING SCREWS NOT TO EXCEED MAX. PENETRATION OF 6mm.  
 \* ① SCREWS NOT TO EXCEED MAX. PENETRATION OF 7mm.  
 \*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 0.24 inches or 6 mm.  
 Avoid sustained operation in overload or dead short conditions.  
 Specifications subject to changes without notice.

- No. 6-32 mounting holes standard
- Dimensions in mm
- Terminal block or "pin" type connector available