



# SPN150

## 150 WATT , Universal Input Fully Enclosed Switching Power Supply



### FEATURES

- ✔ **REMOTE SENSE**
- ✔ **POWER FACTOR CORRECTED**
- ✔ **UNIVERSAL INPUT (AC85-264V)**
- ✔ **OVERVOLTAGE PROTECTION**
- ✔ **OVERCURRENT PROTECTION**
- ✔ **LIGHTWEIGHT CONSTRUCTION**
- ✔ **METAL CHASSIS WITH COVER**
- ✔ **COMPACT, LOW-PROFILE PACKAGES**
- ✔ **3 YEAR WARRANTY**

### SAFETIES / EMI



**FCC-B**  
**EN 55022-B**  
**VCCI-II**

### ELECTRICAL SPECIFICATIONS

All specifications are typical at nominal input, full load.

### INPUT SPECIFICATIONS

Input Voltage.....	AC 85-264V
Input Frequency.....	47 ~ 63 Hz
Input Current.....	1.00 ~ 1.3A Typ
Inrush Current (100/230VAC cold start) .....	13A ~ 31 Typ
Power Factor .....	.99

### OUTPUT SPECIFICATIONS

Output Voltage.....	See Chart
Output Adjustment.....	± 10%
Efficiency.....	78 ~ 87%
Over-Voltage Protection.....	115 - 150% Manual Reset
Over-Current Protection.....	Automatic Recovery (105% min)
Ripple and Noise.....	100 mVp-p max.
Hold-Up Time.....	50 mS
Line/Load Regulation.....	See Chart
Rise Time.....	470 - 1600 mS
Leakage Current (100/230VAC).....	Vin= 100V      0.5mA max. Vin= 230V      0.75mA max.

### GENERAL SPECIFICATIONS

MTBF .....	>120,000 Hours
Isolation Voltage	
Primary to Secondary.....	3000VAC
Primary to Case.....	1500VAC.
Secondary to Case.....	500VAC.
Isolation Resistance.....	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.....	Shock: 20G (3 directions each 3 times) Vibration: 10 ~ 55Hz

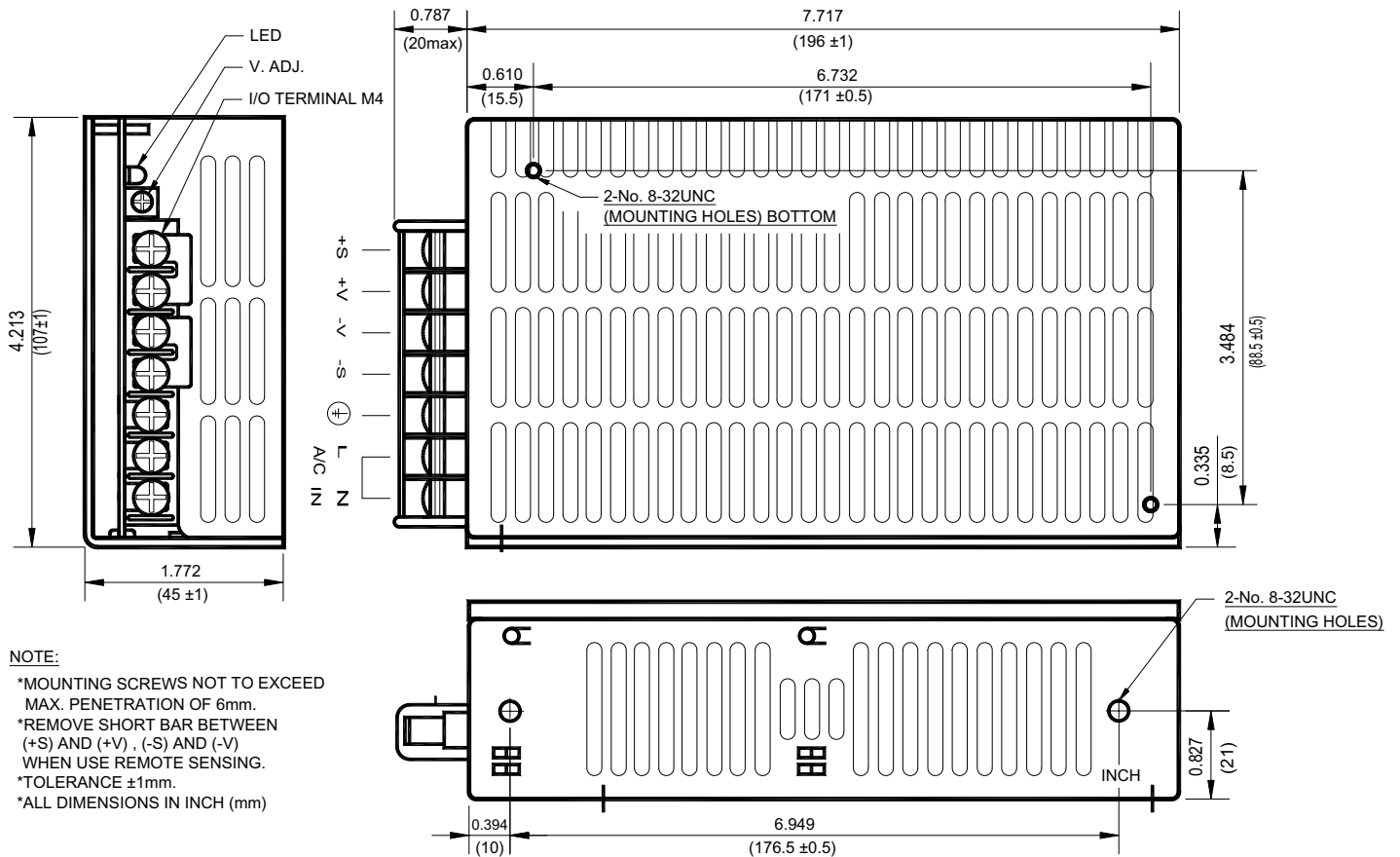
### PHYSICAL SPECIFICATIONS

Metal Enclosed Power Supply with Terminal Strip

# Series

MODEL	OUTPUT VOLTAGE	CURRENT 85 ~ 264 VAC	EFFICIENCY		LINE REGULATION (mV) MAX	LOAD REGULATION (mVmax) (0~100% Load)
			100VAC	230VAC		
<b>SPN150-05S</b>	5 VDC	30.0 A	78%	81%	10 mVmax	20 mVmax
<b>SPN150-12S</b>	12 VDC	13.0 A	82%	86%	10 mVmax	20 mVmax
<b>SPN150-15S</b>	15 VDC	10.0 A	83%	87%	10 mVmax	20 mVmax
<b>SPN150-24S</b>	24 VDC	6.5 A	83%	87%	20 mVmax	40 mVmax
<b>SPN150-48S</b>	48 VDC	3.3 A	83%	87%	20 mVmax	40 mVmax

## SPN150



**NOTE:**

- \*MOUNTING SCREWS NOT TO EXCEED MAX. PENETRATION OF 6mm.
- \*REMOVE SHORT BAR BETWEEN (+S) AND (+V), (-S) AND (-V) WHEN USE REMOTE SENSING.
- \*TOLERANCE ±1mm.
- \*ALL DIMENSIONS IN INCH (mm)

SPN 150

**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
- Terminal block or "pin" type connector available