



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 Factor99

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

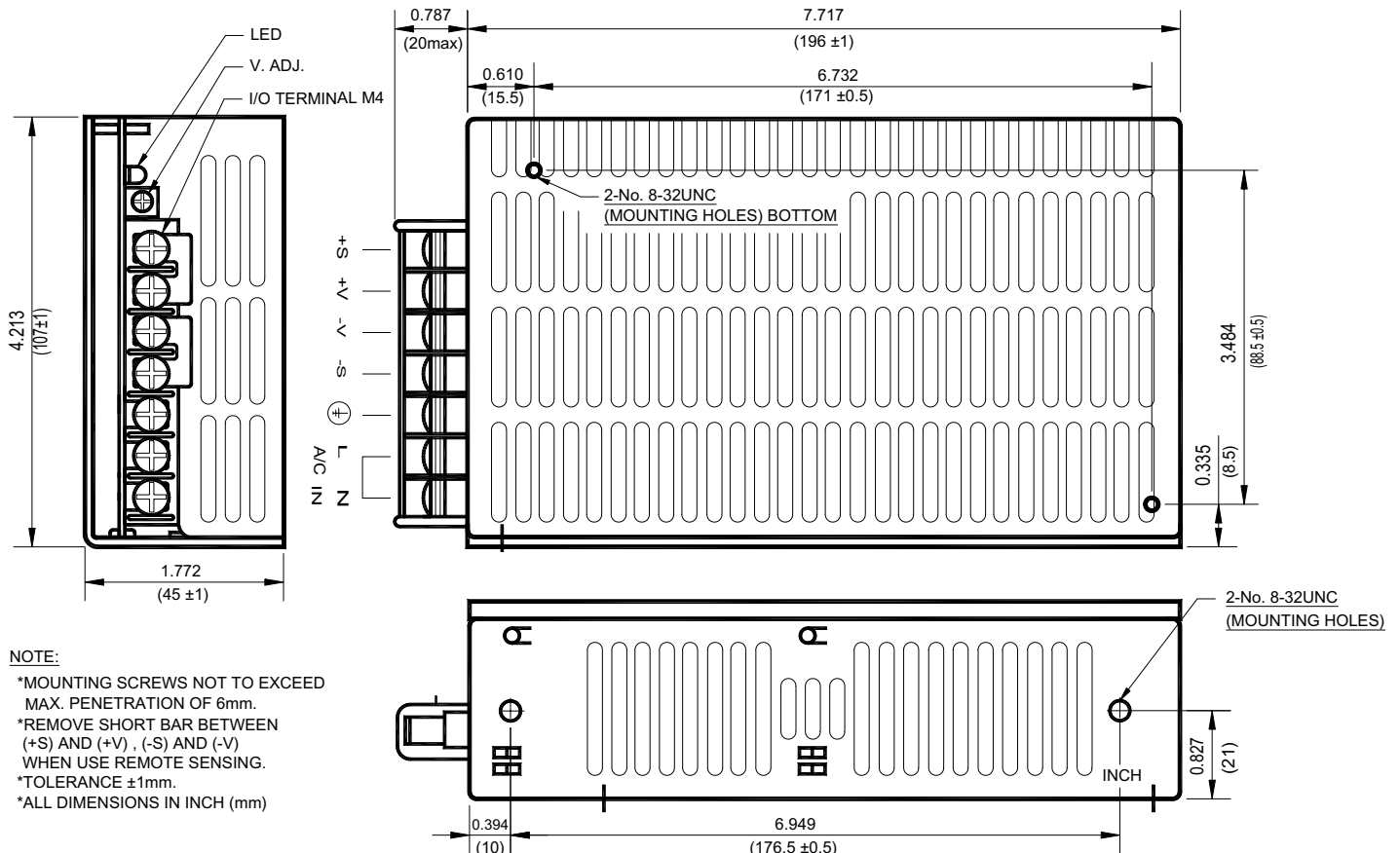
PHYSICAL SPECIFICATIONS

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		
SPN150-05S	5 VDC	30.0 A	78%	81%	10 mVmax	20 mVmax
SPN150-12S	12 VDC	13.0 A	82%	86%	10 mVmax	20 mVmax
SPN150-15S	15 VDC	10.0 A	83%	87%	10 mVmax	20 mVmax
SPN150-24S	24 VDC	6.5 A	83%	87%	20 mVmax	40 mVmax
SPN150-48S	48 VDC	3.3 A	83%	87%	20 mVmax	40 mVmax

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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