SPN100

100 WATT , Universal Input
Fully Enclosed Switching Power Supply

FEATURES

- 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	0.66 ~ 1.3A Typ
Inrush Current (100/230VAC cold start)	15A ~ 25A
Power Factor	.99

OUTPUT SPECIFICATIONS

Output Voltage	See Chart
Output Adjustment	± 10%
Efficiency	79 ~ 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	800 - 1600 mS
Leakage Current (100/230VAC)	0.75 mA

GENERAL SPECIFICATIONS

MTBF	>140,000 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 - Terminal Block

Series

MODEL	OUTPUT VOLTAGE	CURRENT 85 ~ 264 VAC	EFFICIENCY 100VAC	EFFICIENCY 230VAC	LINE REGULATION (MV) MAX	LOAD REGULATION (mVmax) (0~100% Load)
SPN100-05S	5 VDC	20.0 A	79%	81%	10 mVmax	20 mVmax
SPN100-12S	12 VDC	8.6 A	83%	85%	10 mVmax	20 mVmax
SPN100-15S	15 VDC	7.0 A	83%	86%	10 mVmax	20 mVmax
SPN100-24S	24 VDC	4.4 A	83%	86%	20 mVmax	40 mVmax
SPN100-48S	48 VDC	2.2 A	84%	87%	20 mVmax	40 mVmax

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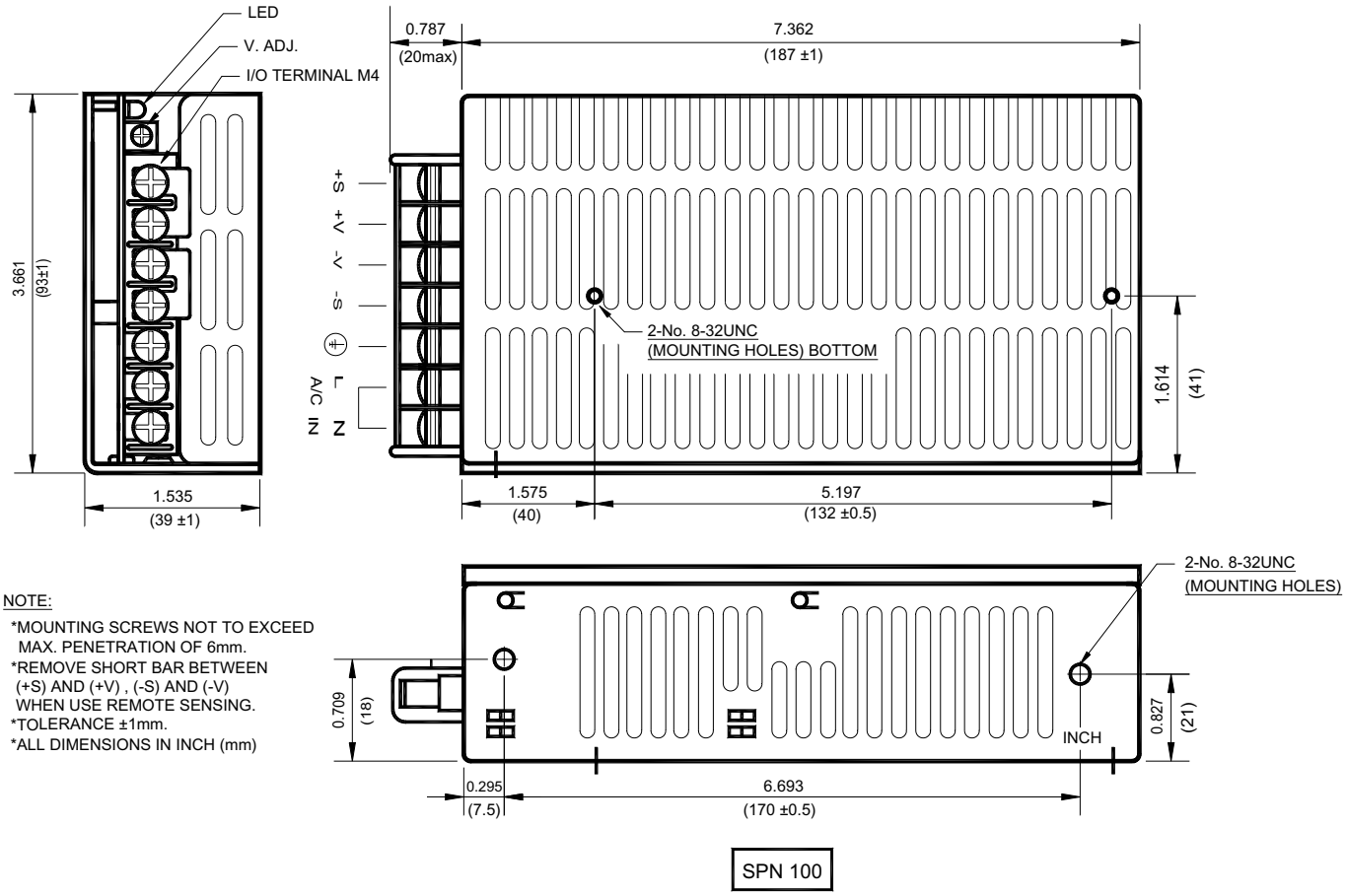

NOTE:

*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)

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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.

- No. 8-32 mounting holes standard
- Dimensions in mm
- Terminal block or “pin” type connector available