

# SPN100 Series

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



### FEATURES

- ▶ POWER FACTOR CORRECTED
- ▶ UNIVERSAL INPUT (AC85-264V)
- ▶ BUILT-IN OVERVOLTAGE PROTECTION
- ▶ OVERCURRENT PROTECTION
- ▶ LIGHTWEIGHT CONSTRUCTION
- ▶ METAL CHASSIS WITH COVER
- ▶ COMPACT LOW-PROFILE PACKAGE
- ▶ 3 YEAR WARRANTY

### SAFETIES/EMI



FCC-B  
EN 55022-B  
VCCI-II

### ELECTRICAL SPECIFICATIONS

All specifications are typical at nominal input, full

#### INPUT SPECIFICATIONS

Input Voltage.....	AC 85V-264 DC 110V-340
Input Frequency.....	47-63 Hz
Input Current.....	0.66~1.3A T
Inrush Current (100/230VAC cold start)....	15~25A
Power Factor.....	0.99

#### OUTPUT SPECIFICATIONS

Output Voltage.....	<a href="#">See Chart</a>
Output Adjustment.....	+/-10%
Efficiency.....	79~87%
Over-Voltage Protection.....	115 - 150% (1
Over-Current Protections.....	Automatic R min)
Ripple and Noise.....	100 mVp-p r
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 Hou
Isolation Voltage	
Primary to Secondary.....	3000 VAC
Primary to Case.....	1500 VAC
Secondary to Case.....	500 VAC
Isolation Resistance.....	100-Mohms (1

#### ENVIRONMENTAL SPECIFICATIONS

Operating Temperatures.....	0°-60°C
	Derates linearly 2.
Cooling.....	Convection
Temperature Coefficient.....	0.02%/°C
Humidity.....	20 - 85% Rh (No
Storage Temperature.....	-20°~85°C
Shock Vibration.....	Shock: 20G (3 dir
	Vibration: 10~55H

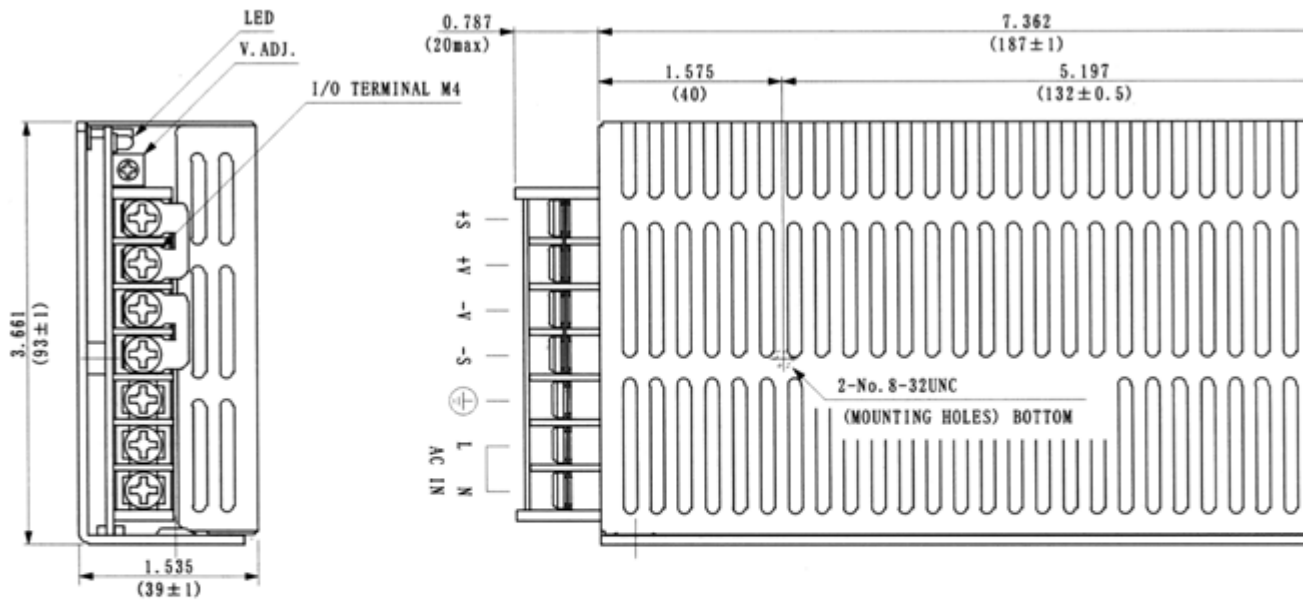
#### PHYSICAL SPECIFICATIONS

Metal Enclosed, Terminal Block

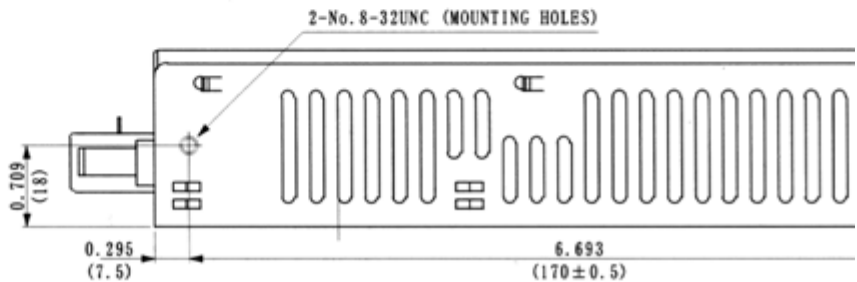
MODEL	OUTPUT VOLTAGE	CURRENT 85~264 VAC	OUTPUT CURRENT		LINE REGULATION (85~132VAC) (170~264VAC)	LOAD (mVmax)
			100VAC	230VAC		
SPN100-05S	5V	20.0 A	79%	81%	10	
SPN100-12S	12V	8.6 A	83%	85%	10	
SPN100-15S	15V	7.0 A	83%	86%	10	
SPN100-24S	24V	4.4 A	83%	86%	20	
SPN100-48S	48 V	2.2 A	84%	87%	20	

**NOTE:**

All specifications typical and nominal/full load and 25°C unless otherwise noted.  
 Avoid sustained operation in overload or dead short conditions.  
 Specifications subject to changes without notice.



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



- \*No. 6-32 mounting screws
- \*Dimensions in inches
- \*Terminal block type connector