



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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 Factor99

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

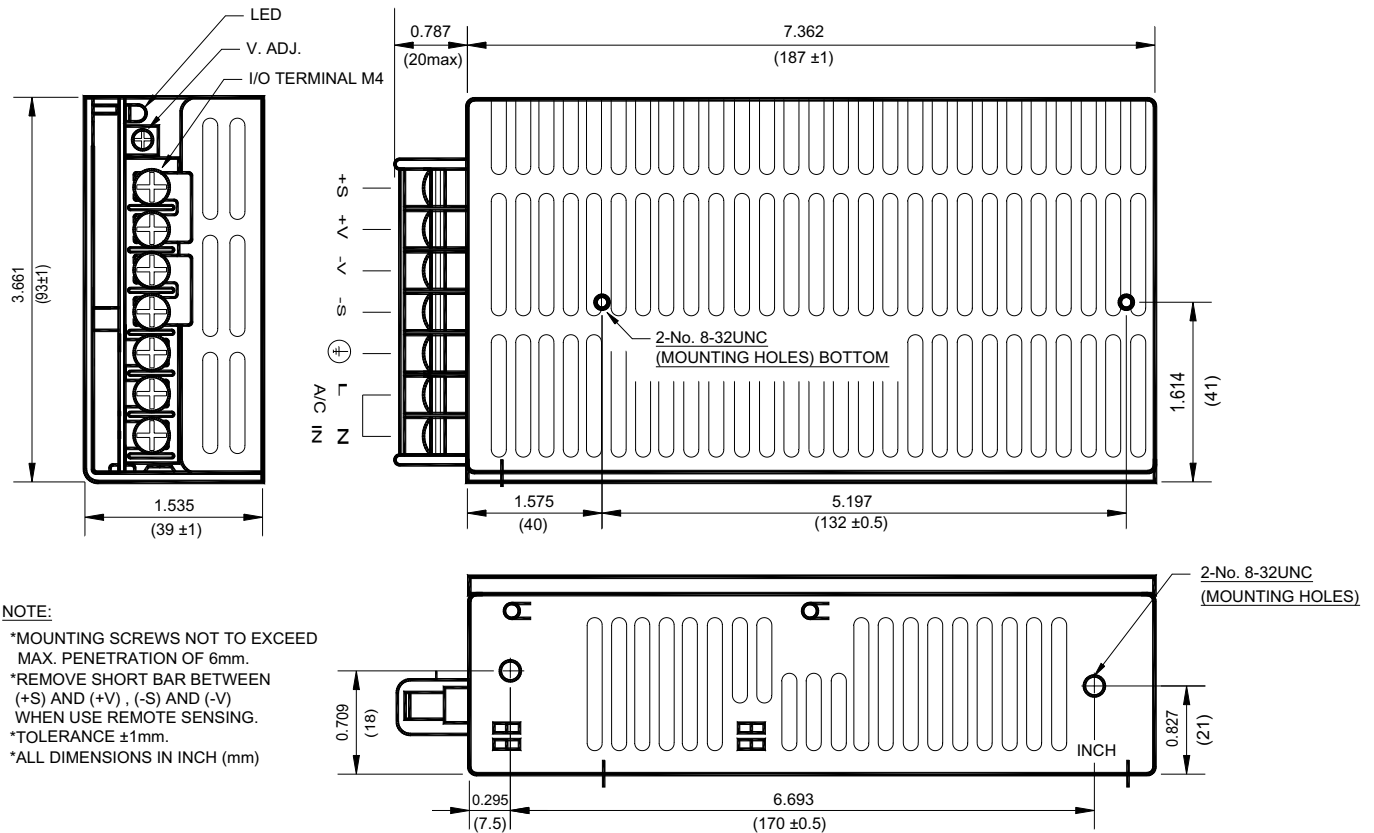
PHYSICAL SPECIFICATIONS

Metal Enclosed - Terminal Block

Series

MODEL	OUTPUT VOLTAGE	CURRENT 85 ~ 264 VAC	EFFICIENCY		LINE REGULATION (MV) MAX	LOAD REGULATION (mVmax) (0-100% Load)
			100VAC	230VAC		
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

SPN100



SPN 100

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)

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