



Volgen America Inc.
3823 Spinnaker CT
Fremont, CA 94538

(510) 979-9696 Tel.
(510) 979-9691 Fax
www.volgen.com

SPN Series: 15 watt to 150 watts Fully Enclosed Switch Mode Power Supplies



FEATURES

- ✓ Universal Input
- ✓ Over-Voltage Protection
- ✓ Over-Current Protection
- ✓ Metal Chassis with Cover
- ✓ Compact, Low Profile Design
- ✓ 3 Year Warranty

SPN75 ~ 150

- ✓ Remote Sense
- ✓ Power Factor Correction

SAFETY / EMI



CB Report

FCC - B
EN 55022-B
VCCI-II

INPUT SPECIFICATIONS

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

OUTPUT SPECIFICATIONS

Output Voltage..... See Chart
Output Adjustment..... $\pm 10\%$
Efficiency..... 78 ~ 87%
Over-Voltage Protection..... 115 ~ 150% Manual Reset
Over-Current Protection..... Automatic Recovery
Ripple and Noise..... 100 mVp-p max.
Hold-Up Time..... 50 mS
Line / Load Regulation..... See Chart
Rise Time..... 470 ~ 1600 mS
Leakage Current..... 0.75mA max.

GENERAL SPECIFICATIONS

MTBF..... > 120,000 Hours
Isolation Voltage..... $\pm 10\%$
Primary to Secondary..... 3,000 VAC
Primary to Case..... 1,500 VAC
Secondary to Case..... 500 VAC
Isolation Resistance..... 100 M-Ohms / min.

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature..... 0°C ~ +60°C
Cooling..... Convection
Temperature Coefficient..... 0.02% / °C
Humidity..... 20 ~ 85% Rh (non-condensing)
Storage Temperature..... -20°C ~ +85°C
Shock and Vibration..... Shock: 20G (3 directions)
Vibration: 10 ~ 50Hz



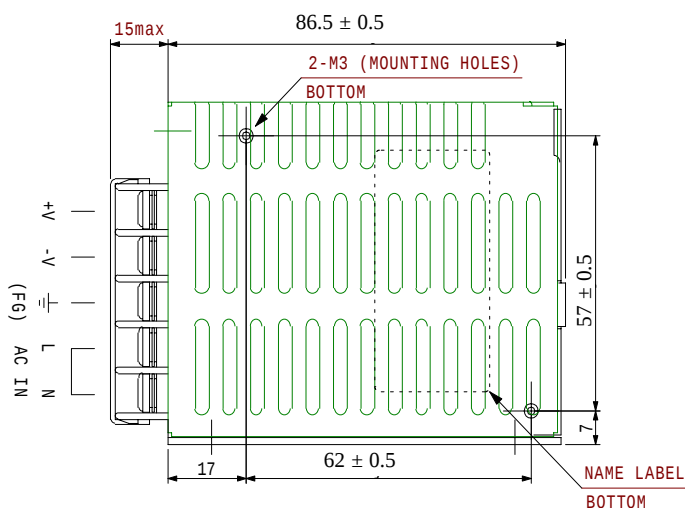
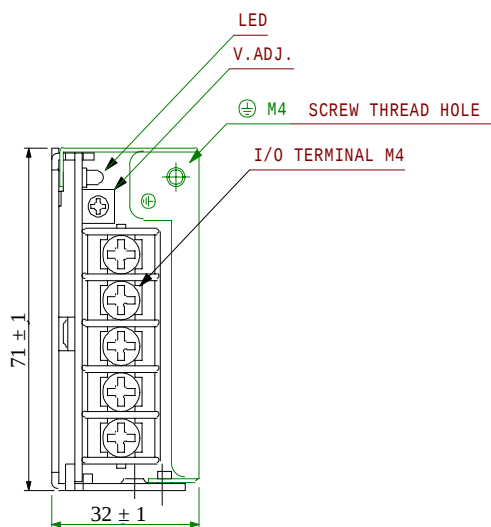
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SPN15 Series

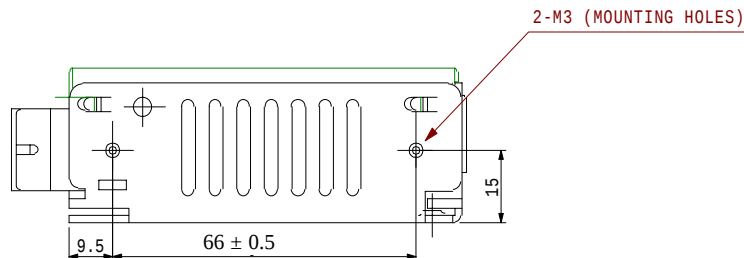
Part Number	Output Voltage (VDC)	Output Current (Amps)	Efficiency %	Load Regulation mV max
SPN15-05S	5	3	75	10
SPN15-12S	12	1.25	78	10
SPN15-15S	15	1.0	79	10
SPN15-24S	24	0.65	80	20
SPN15-48S	48	0.3	80	40

Specifications typical at 115 VAC input



Notes:

- Mounting screws not to exceed max penetration of 6mm
- Screw thread size is M3 (Metric) or 6/32 (Inch)
- Weight 200g typ.
- Measurements in mm unless other wise specified
- Tolerance ± 1mm





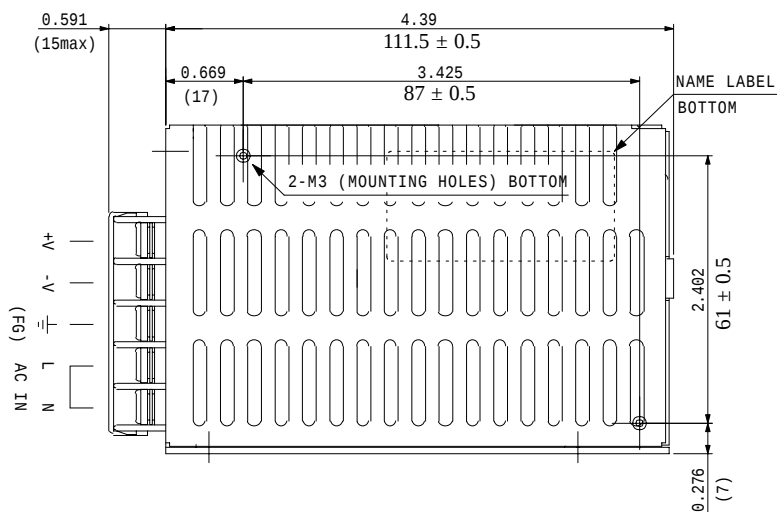
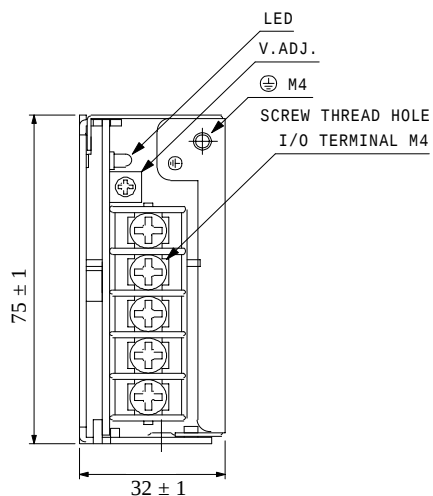
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SPN30 Series

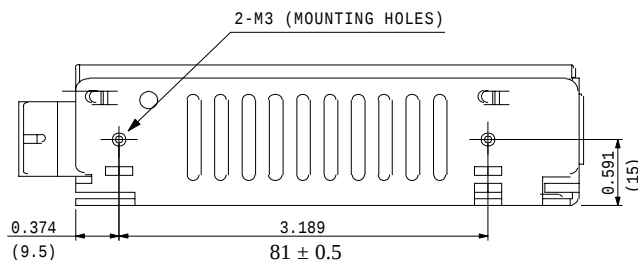
Part Number	Output Voltage (VDC)	Output Current (Amps)	Efficiency %	Load Regulation mV max
SPN30-05S	5	6	75	10
SPN30-12S	12	2.6	78	10
SPN30-15S	15	2.1	79	10
SPN30-24S	24	1.4	80	20
SPN30-48S	48	0.7	80	40

Specifications typical at 115 VAC input



Notes:

- Mounting screws not to exceed max penetration of 6mm
- Screw thread size is M3 (Metric) or 6/32 (Inch)
- Weight 200g typ.
- Measurements in mm unless other wise specified
- Tolerances ± 1 mm





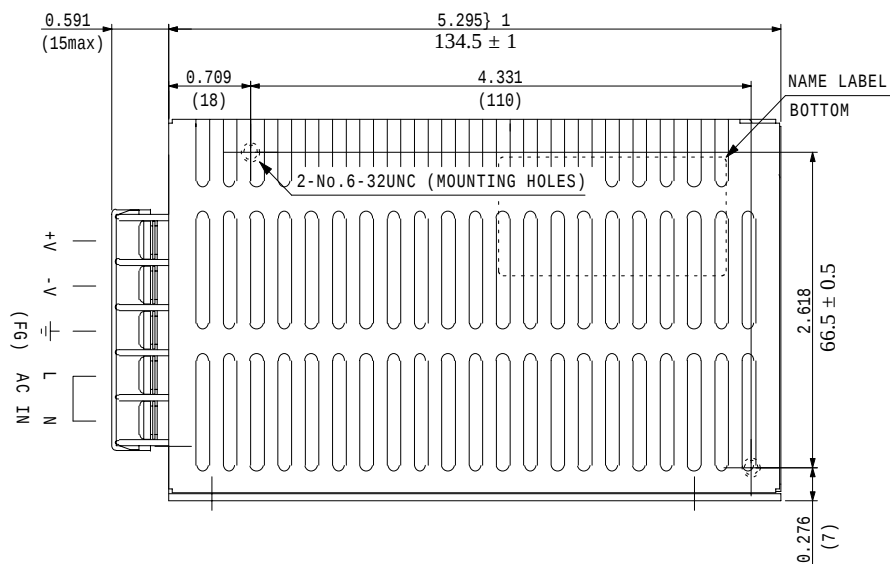
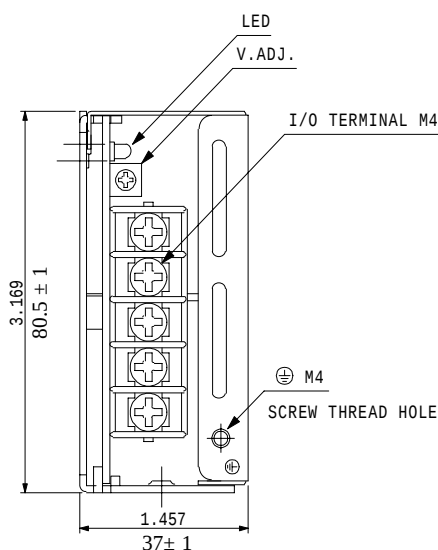
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SPN50 Series

Part Number	Output Voltage (VDC)	Output Current (Amps)	Efficiency %	Load Regulation mV max
SPN50-05S	5	10	75	10
SPN50-12S	12	4.2	78	10
SPN50-15S	15	3.4	79	10
SPN50-24S	24	2.1	80	20
SPN50-48S	48	1.1	80	40

Specifications typical at 115 VAC input



Notes:

- Mounting screws not to exceed max penetration of 6mm
- Screw thread size is M3 (Metric) or 6/32 (Inch)
- Weight 200g typ.
- Measurement in mm unless other wise specified
- Tolerances ± 1 mm

