

# SPN75

## 75 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.....                           | 0.55 ~ 1.0A Typ |
| Inrush Current (100/230VAC cold start) ..... | 16A ~ 39A Typ   |
| Power Factor .....                           | .99             |

### 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.....                 | 40-50 mS                      |
| Line/Load Regulation.....         | See Chart                     |
| Rise Time.....                    | 800 - 1700 mS                 |
| Leakage Current (100/230VAC)..... | 0.75 mA                       |

### GENERAL SPECIFICATIONS

|                           |                 |
|---------------------------|-----------------|
| MTBF .....                | >160,000 Hours  |
| Isolation Voltage         |                 |
| Primary to Secondary..... | 3000VAC         |
| Primary to Case.....      | 1500VAC.        |
| Secondary to Case.....    | 500VAC.         |
| Isolation Resistance..... | 100 M-Ohms min. |

### ENVIRONMENTAL SPECIFICATIONS

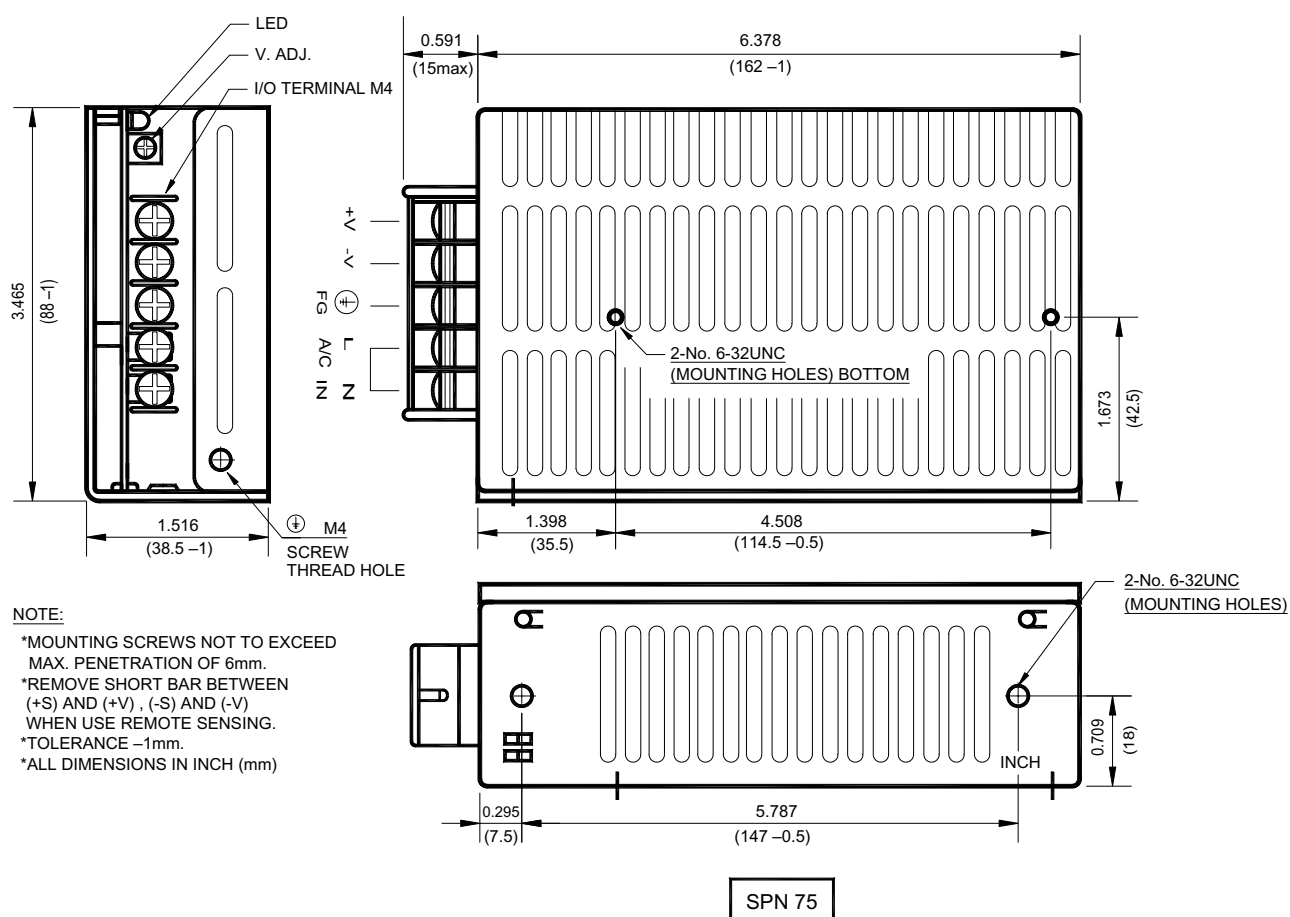
|                              |                                                                |
|------------------------------|----------------------------------------------------------------|
| Operating Temperature .....  | 0°C ~ +60°C Derates Linearly 2.5%/°C After 50°C                |
| Cooling.....                 | 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)<br>Vibration: 10 ~ 55Hz |

### PHYSICAL SPECIFICATIONS

Metal Enclosed - Terminal Block

| MODEL            | OUTPUT VOLTAGE | CURRENT<br>85 ~ 264 VAC | EFFICIENCY |        | LINE REGULATION<br>(MV) MAX | LOAD REGULATION (mVmax)<br>(0~100% Load) |
|------------------|----------------|-------------------------|------------|--------|-----------------------------|------------------------------------------|
|                  |                |                         | 100VAC     | 230VAC |                             |                                          |
| <b>SPN75-05S</b> | 5 VDC          | 15.0 A                  | 78%        | 81%    | 10 mVmax                    | 40 mVmax                                 |
| <b>SPN75-12S</b> | 12 VDC         | 6.5 A                   | 82%        | 86%    | 10 mVmax                    | 20 mVmax                                 |
| <b>SPN75-15S</b> | 15 VDC         | 5.2 A                   | 83%        | 87%    | 10 mVmax                    | 20 mVmax                                 |
| <b>SPN75-24S</b> | 24 VDC         | 3.2 A                   | 83%        | 87%    | 20 mVmax                    | 40 mVmax                                 |
| <b>SPN75-48S</b> | 48 VDC         | 1.6 A                   | 83%        | 87%    | 20 mVmax                    | 40 mVmax                                 |

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### 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. 6-32 mounting holes standard
- Dimensions in mm
- Terminal block or "pin" type connector available