SPN50 Series

50 WATT, Universal Input
Fully Enclosed Switching Power Supply



FEATURES

- 50 WATT OUTPUT POWER
- UNIVERSAL INPUT
- OVERVOLTAGE PROTECTION
- OVERCURRENT PROTECTION
- LIGHTWEIGHT CONSTRUCTION
- METAL CHASSIS WITH COVER
- COMPACT, LOW-PROFILE PACKAGES
- 3 YEAR WARRANTY

SAFETIES/APPROVALS

FCC-B
EN 55022-B
VCCI-II

ELECTRICAL SPECIFICATIONS

All specifications are typical at nominal input, full load

INPUT SPECIFICATIONS

Input Voltage.....85 ~ 264VAC
Input Frequency..... 47 ~ 63Hz
Input Current.....0.55 ~ 1.0A Typ.
Inrush Current.....16A ~ 39A Typ.

OUTPUT SPECIFICATIONS

Output Voltage .....See Chart
Voltage Adjustment.....±10%
Minimum Load.....±10%
Efficiency.....75 ~ 80%
Over-Voltage Protection.....115 ~ 150% Manual Reset
Over-Current Protection.....Automatic Recovery (105% min)
Ripple and Noise.....100mVp-p max.
Hold-Up Time.....40 ~ 50 mS
Line/Load Regulation..... See Chart
Rise Time.....800 ~ 1700 mS
Leakage Current (100/230VAC).....0.75mA

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.

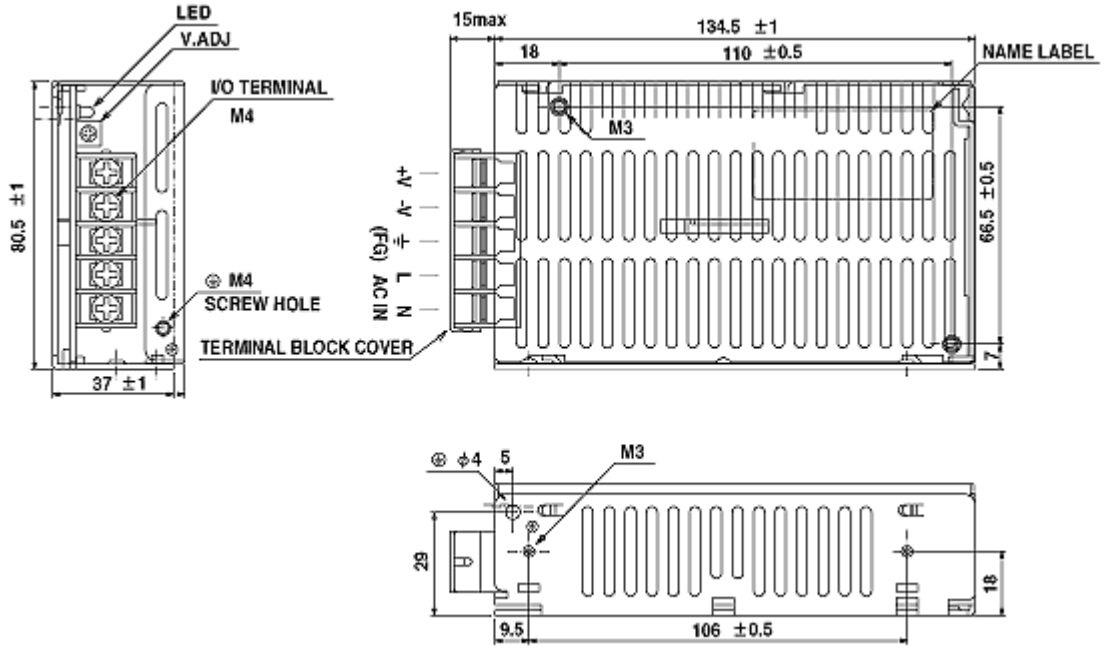
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature .....0°C ~ +60°C
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

MODEL	Output Voltage	Output Current (85 ~ 264 VAC)	Efficiency (%)	Load Regulation (mV max)
SPN50-05S	5VDC	10A	75%	10mV max
SPN50-12S	12VDC	4.2A	78%	10mV max
SPN50-15S	15VDC	3.4A	79%	10mV max
SPN50-24S	24VDC	2.1A	80%	20mV max
SPN50-48S	48VDC	1.1A	80%	40mV max



Note:

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

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.