

SENSEMASTER LTD

Sensemaster Ltd.
Unit 1 Severn Bridge Ind Est.
Caldicot, Monmouthshire. NP26 5PW

Sensing, Heating & Anti-static Solutions

3024-PSU SPECIFICATION

50W 24V 2.08A Level VI/CoC Tier 2 62368-1 compliant Desktop power supply with a M8 4 pole connector and additional 2m earth cable fitted with M4 Ring crimp

INPUT SPECIFICATION

Input Voltage

The range of input voltage is from 90 ~ 264VAC

Input Frequency

The range of input frequency is from 47Hz to 63Hz.

Input Current

The maximum input current is 2A at 100VAC 60Hz and 240VAC 50Hz, full load.

Inrush Current

The inrush current will not exceed 80A to 115VAC input or 160A at 230VAC input, cold start, and 25°C.

Efficiency

The average efficiency is higher than 89% while measuring at nominal line and across 25%, 50%, 75%, 100% of rated output current.

Higher than 79% at nominal line and 10% rated output current.

No load power consumption $\leq 0.15W$ output at nominal line input.

Hold Up Time

The hold-up time is $\geq 8.3mS$ typical at 240VAC 50Hz input and measured from the last charging pulse to when the main output drops down to 95% of output voltage.

Leakage Current

The maximum leakage current is 250 μ A at 264VAC, 50Hz.

OUTPUT SPECIFICATION

Load Range

24V Min. 0A Max. 2.08A

Ripple & Noise

The peak-to-peak ripple and noise is 360mV.

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Line Regulation

The line regulation is less than +/- 5% (22.8V ~ 25.2V) while measuring at rated load and an input voltage change of +/- 10% from nominal line.

Load Regulation

The load regulation for the 24V is less than +/- 5% (22.8V ~ 25.2V); while measuring is done by changing the measured output loading +/- 40% from 60% rated load.

PROTECTION

Over Voltage Protection

If for some reason the power supply fails to control itself, the built-in over voltage protection circuit will shut down the outputs to avoid damaging the external circuits. The trip point of the O.V.P. circuit is around 150% of rated voltage. Protection is Latch Off

Short Circuit/Overload Protection

The power supply will go into hiccup mode against short circuit or overload conditions, and will auto recover when the fault condition is removed.

The trip point for Overload Protection trigger is between 110% ~ 150% of rated output current

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature

0° C to +40° C.

Storage Temperature

-20° C to +85° C.

Cooling

Natural convection

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INTERNATIONAL STANDARDS

Safety Standards

The unit is designed to meet the following standards:

62368-1: IEC62368-1, EN62368-1, UL62368-1, PSE, EAC (Belarus), RCM, IRAM

60950-1: CCC, BSMI

EMI Standards

The power supply meets with the following:

EN55032: Class B

CISPR 32

FCC Part 15: Class B

EMS Standards

EN61000-4-2: 2009

EN61000-4-3: 2006+A1:2008+A2:2010

EN61000-4-4: 2012

EN61000-4-5: 2014

EN61000-4-6: 2014

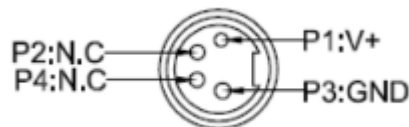
EN61000-4-8: 2010

EN61000-4-11: 2004

MECHANICAL SPECIFICATIONS

Connectors

Murr Elektronik M8 4 pole connector



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Drawing

