

100W Desktop type switching power supplies for Medical Equipment

DESCRIPTION

The NSP-MDT100 series of AC/DC switching mode power supplies provide 100 Watts of continuous output power. All supplies are UL94V-1 min compliant include IEC-320-C14 input for worldwide applications. They are ideally suited for use in hospital instrument and many other applications. All models meet FCC Part-18 class B and CISPR-11 EN55011 class B emission Limits and are designed to comply with UL/c-UL (UL 60601-1) TUV/T-mark (EN 60601-1) and new CE requirements. All units are 100% burned in and tested.



Application

- Medical Microscope
- Display Monitors
- Other diagnostic equipments

FEATURES

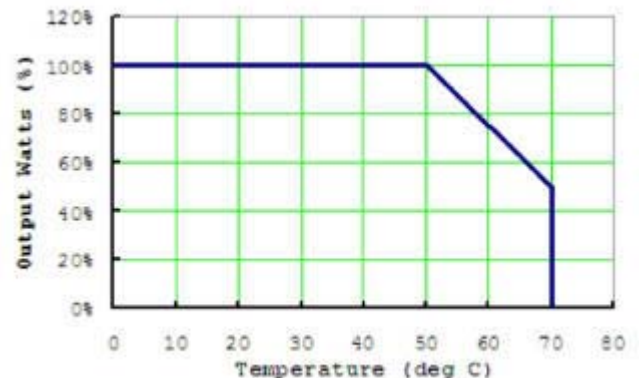
- Wide Input Voltage 90 to 264 VAC, 47 to 63 Hz
- IEC-320-C14 Input Inlet
- Output Voltage Available from 5VDC through 40VDC
- Optional Output Connector
- Single to Triple Output
- Input Surge Current, Over Voltage and Over Load Protection
- Power Factor Correction
- Output Voltage Protection (Crowbar Design)
- On/Off Switch
- Class I Insulation
- 3 year warranty

ELECTRICAL CHARACTERISTICS

- Efficiency: 88% max.
- Line Regulation: 1% max.
- Load Regulation: 7% max.
- Hold-up Time: 16mS min.
- Output ripple and noise: 0.5% (Typ.).
(The Ripple & Noise which is under 3.3VDC at 2% max)

ENVIRONMENTAL

- Operating Temperature: 0 to 70°C
- De-rate linearly from 100% load at 50°C to 50% load at 70°C
- Storage Temperature: -40 to 85°C
- Relative Humidity: 5 to 95%
- MTBF: 100,000 calculated hours.



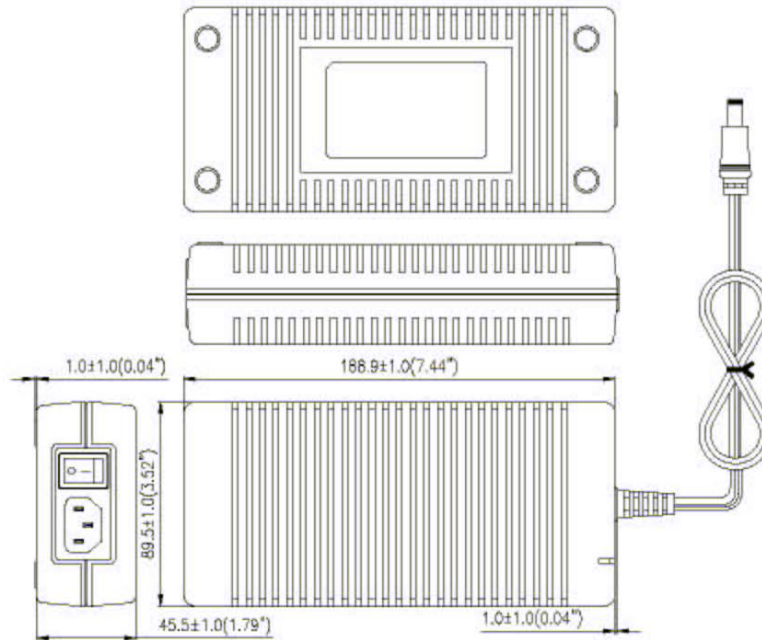
OUTPUT VOLTAGE AND CURRENT RANGE

Model No.	Output Voltage	Max. Output Current	Total Regulation	Max. Output Power	Safety
▶ NSP-MDT100-102	5~6VDC	14.00~11.67A	5%	70W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-103	6~8VDC	13.33~10.00A	5%	80W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-104	8~11VDC	11.25~8.20A	4%	90W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-105	12~13VDC	8.33~7.70A	3%	100W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-106	13~16VDC	7.70~6.30A	3%	100W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-107	16~21VDC	6.30~4.80A	3%	100W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-108	21~27VDC	4.80~3.70A	2%	100W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-109	27~33VDC	3.70~3.00A	2%	100W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-110	33~40VDC	3.00~2.50A	2%	100W	UL/CUL, TUV-GS, CE,

Model No.	Output Voltage	Max. Output Current	Total Regulation	Max. Output Power	Safety
▶ NSP-MDT100-200	+3.3VDC +12.0VDC	10.00A 3.00A	7% 5%	69W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-201	+5.0VDC +12.0VDC	10.00A 3.00A	5% 5%	80W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-202	+5.0VDC +15.0VDC	10.00A 3.00A	5% 6%	80W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-203	+5.0VDC +24.0VDC	10.00A 2.00A	5% 5%	80W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-204	+3.3VDC +5.0VDC	10.00A 5.00A	7% 5%	58W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-209	+12.0VDC -12.0VDC	7.00A 1.00A	5% 5%	80W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-210	+15.0VDC -15.0VDC	6.00A 1.00A	5% 5%	80W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-212	+24.0VDC -24.0VDC	3.00A 1.00A	5% 5%	80W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-215	+5.0VDC -24.0VDC	10.00A 1.00A	5% 5%	74W	UL/CUL, TUV-GS, CE,

Model No.	Output Voltage	Max. Output Current	Total Regulation	Max. Output Power	Safety
▶ NSP-MDT100-300	+3.3VDC +12.0VDC -12.0VDC	10.00A 3.00A 1.00A	7% 5% 5%	74W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-300-1	+3.3VDC +12.0VDC +12.0VDC	10.00A 3.00A 1.00A	7% 5% 5%	74W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-301	+5.0VDC +12.0VDC -5.0VDC	10.00A 3.00A 1.00A	5% 5% 5%	80W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-301-1	+5.0VDC +12.0VDC +5.0VDC	10.00A 3.00A 1.00A	5% 5% 5%	80W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-302	+5.0VDC +12.0VDC -12.0VDC	10.00A 3.00A 1.00A	5% 5% 5%	80W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-302-1	+5.0VDC +12.0VDC +12.0VDC	10.00A 3.00A 1.00A	5% 5% 5%	80W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-303	+5.0VDC +15.0VDC -15.0VDC	10.00A 3.00A 1.00A	5% 6% 5%	80W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-303-1	+5.0VDC +15.0VDC +15.0VDC	10.00A 3.00A 1.00A	5% 6% 5%	80W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-304	+5.0VDC +24.0VDC -24.0VDC	10.00A 3.00A 1.00A	5% 5% 5%	80W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-304-1	+5.0VDC +24.0VDC +24.0VDC	10.00A 3.00A 1.00A	5% 5% 5%	80W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-305	+5.0VDC +24.0VDC -12.0VDC	10.00A 3.00A 1.00A	5% 5% 5%	80W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-305-1	+5.0VDC +24.0VDC +12.0VDC	10.00A 3.00A 1.00A	5% 5% 5%	80W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-306	+3.3VDC +12.0VDC -5.0VDC	10.00A 3.00A 1.00A	7% 5% 5%	74W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-306-1	+3.3VDC +12.0VDC +5.0VDC	10.00A 3.00A 1.00A	7% 5% 5%	74W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-308	+3.3VDC +5.0VDC -12.0VDC	10.00A 3.00A 1.00A	7% 5% 5%	60W	UL/CUL, TUV-GS, CE,
▶ NSP-MDT100-308-1	+3.3VDC +5.0VDC +12.0VDC	10.00A 3.00A 1.00A	7% 5% 5%	60W	UL/CUL, TUV-GS, CE,

Mechanical Specifications:



Note:

1. Dimensions are shown in inches or mm.
2. Weight: 778-800gs approx.
3. Optional output connector:
See page Appendix.