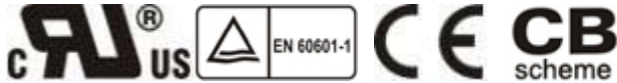


▶ 50W Desktop type switching power supplies for Medical Equipment

▶ DESCRIPTION

The NSP-MDT50 series of AC/AD switching mode power supplies provide 50Watts of continuous output power, All supplies are UL 94V-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 60601-1-1), 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

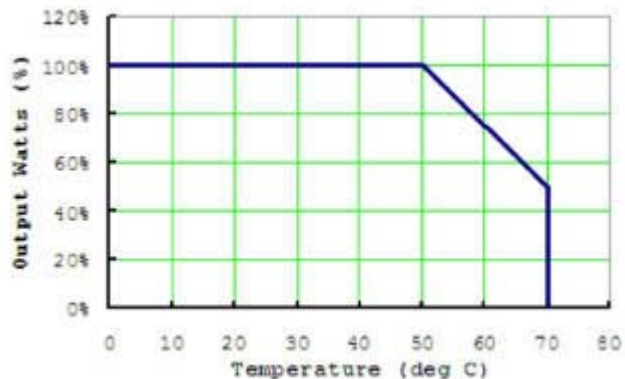
- Wide Input Voltage 90 to 264 VAC, 47 to 63 Hz
- IEC-320-C14 Input Inlet
- Output Voltage Available from 2VDC through 50VDC
- Optional Output Connector
- Single to Triple Output
- Splash Proof
- Input Surge Current, Over Voltage and Over Load Protection
- Class I Insulation
- 3 year warranty

▶ 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.

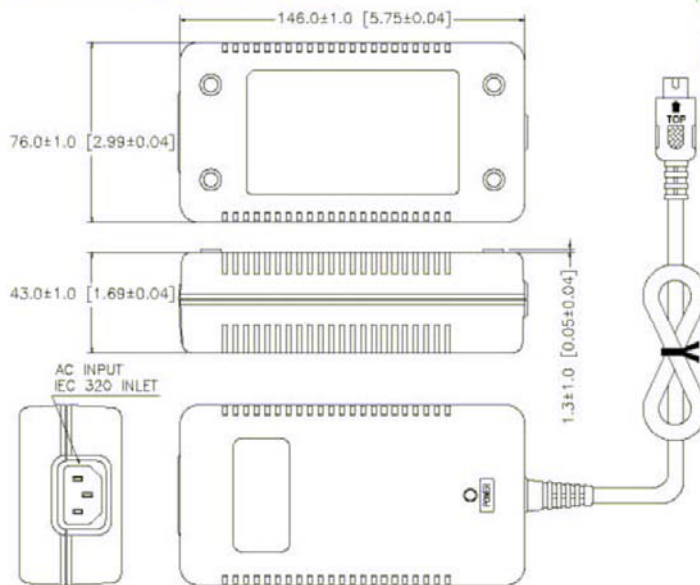


OUTPUT VOLTAGE AND CURRENT RANGE

Model No.	Output Voltage	Max. Output Current	Total Regulation	Max. Output Power	Safety
▶ NSP-MDT50-100	2~3VDC	12.0~10.0A	7%	30W	UL/cUL, TUV-GS, CE,CB
▶ NSP-MDT50-101	3~5VDC	10.0~8.00A	5%	40W	UL/cUL, TUV-GS, CE,CB
▶ NSP-MDT50-102	5~6VDC	8.00~6.66A	5%	40W	UL/cUL, TUV-GS, CE,CB
▶ NSP-MDT50-103	6~8VDC	7.00~5.25A	5%	42W	UL/cUL, TUV-GS, CE,CB
▶ NSP-MDT50-104	8~11VDC	5.63~4.00A	4%	45W	UL/cUL, TUV-GS, CE,CB
▶ NSP-MDT50-105	11~13VDC	4.00~3.46A	3%	45W	UL/cUL, TUV-GS, CE,CB
▶ NSP-MDT50-106	13~16VDC	3.46~2.81A	3%	45W	UL/cUL, TUV-GS, CE,CB
▶ NSP-MDT50-107	16~21VDC	3.12~2.38A	3%	50W	UL/cUL, TUV-GS, CE,CB
▶ NSP-MDT50-108	21~27VDC	2.30~1.85A	2%	50W	UL/cUL, TUV-GS, CE,CB
▶ NSP-MDT50-109	27~33VDC	1.85~1.51A	2%	50W	UL/cUL, TUV-GS, CE,CB
▶ NSP-MDT50-110	33~40VDC	1.51~1.25A	2%	50W	UL/cUL, TUV-GS, CE,CB
▶ NSP-MDT50-111	40~50VDC	1.25~1.00A	2%	50W	UL/cUL, TUV-GS, CE,CB
Model No.	Output Voltage	Max. Output Current	Total Regulation	Max. Output Power	Safety
▶ NSP-MDT50-200	+3.3VDC +12.0VDC	5.00A 2.00A	7% 5%	40W	UL/cUL, TUV-GS, CE,CB
▶ NSP-MDT50-201	+5.0VDC +12.0VDC	5.00A 2.00A	5% 5%	42W	UL/cUL, TUV-GS, CE,CB
▶ NSP-MDT50-202	+5.0VDC +15.0VDC	5.00A 1.50A	5% 6%	42W	UL/cUL, TUV-GS, CE,CB
▶ NSP-MDT50-203	+5.0VDC +24.0VDC	5.00A 1.00A	5% 5%	42W	UL/cUL, TUV-GS, CE,CB
▶ NSP-MDT50-204	+3.3VDC +5.0VDC	5.00A 2.00A	7% 5%	26.5W	UL/cUL, TUV-GS, CE,CB
▶ NSP-MDT50-209	+12.0VDC -12.0VDC	3.00A 1.00A	5% 5%	42W	UL/cUL, TUV-GS, CE,CB
▶ NSP-MDT50-210	+15.0VDC -15.0VDC	2.00A 1.00A	5% 5%	42W	UL/cUL, TUV-GS, CE,CB
▶ NSP-MDT50-215	+5.0VDC -24.0VDC	5.00A 1.00A	5% 5%	42W	UL/cUL, TUV-GS, CE,CB
▶ NSP-MDT50-216	+5.1VDC +7.2VDC	5.00A 2.60A	5% 5%	42W	UL/cUL, TUV-GS, CE,CB
▶ NSP-MDT50-217	+10.5VDC -10.5VDC	2.00A 2.00A	5% 5%	42W	UL/cUL, TUV-GS, CE,CB
▶ NSP-MDT50-218	+5.0VDC -5.0VDC	5.00A 2.00A	5% 5%	35W	UL/cUL, TUV-GS, CE,CB

Model No.	Output Voltage	Max. Output Current	Total Regulation	Max. Output Power	Safety
▶ NSP-MDT50-300	+3.3VDC +12.0VDC -12.0VDC	5.00A 2.00A 0.80A	7% 5% 5%	42W	UL/cUL, TUV-GS, CE,CB
▶ NSP-MDT50-301	+5.0VDC +12.0VDC -5.0VDC	5.00A 2.00A 0.80A	5% 5% 5%	42W	UL/cUL, TUV-GS, CE,CB
▶ NSP-MDT50-302	+5.0VDC +12.0VDC -12.0VDC	5.00A 2.00A 0.80A	5% 5% 5%	42W	UL/cUL, TUV-GS, CE,CB
▶ NSP-MDT50-303	+5.0VDC +15.0VDC -15.0VDC	5.00A 2.00A 0.80A	5% 6% 5%	42W	UL/cUL, TUV-GS, CE,CB
▶ NSP-MDT50-304	+5.0VDC +24.0VDC -24.0VDC	5.00A 1.00A 0.50A	5% 5% 5%	42W	UL/cUL, TUV-GS, CE,CB
▶ NSP-MDT50-305	+5.0VDC +24.0VDC -12.0VDC	5.00A 1.00A 0.80A	5% 5% 5%	42W	UL/cUL, TUV-GS, CE,CB
▶ NSP-MDT50-306	+3.3VDC +12.0VDC -5.0VDC	5.00A 2.00A 0.80A	7% 5% 5%	42W	UL/cUL, TUV-GS, CE,CB

Mechanical Specifications:



- Note:
1. Dimensions are shown in inches or mm.
 2. Weight: 510-560gs approx.
 3. Optional output connector: See page Appendix.