

## 30W Desktop type switching power supplies for Medical Equipment

### DESCRIPTION

The NSP-MDT30 series of AC/AD switching mode power supplies provide 30Watts of continuous output power, All supplies are UL94V-1 min compliant, include IEC-320-C14 input for worldwide applications, They are ideally suited to use in hospital instrument and many other applications. All models meet FCC-Part-18 class B and CISPR-11 EN55011class B emission limits and are designed to comply with UL/CUL (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

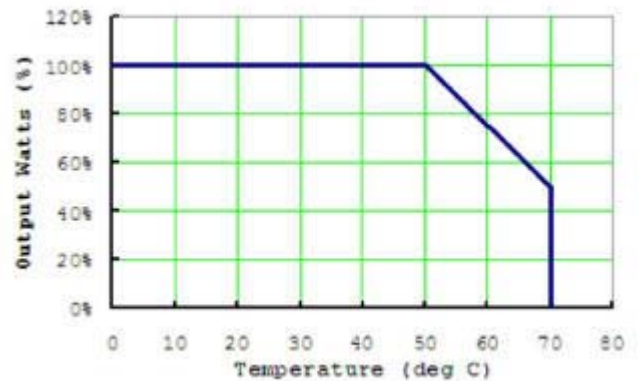
- Wide Input Voltage 90 to 264 VAC, 47 to 63 Hz
- IEC-320-C14 Input Inlet
- Output Voltage Available from 3VDC through 40VDC
- Optional Output Connector
- Single to Triple Output
- Splash Proof
- Input Surge Current, Over Voltage and Over Load Protection
- Class I Insulation
- 3 year warranty

### ELECTRICAL CHARACTERISTICS

- Efficiency: 88% max.
- Line Regulation: 1% max.
- Load Regulation: 10% max.
- Hold-up Time: 12mS 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%

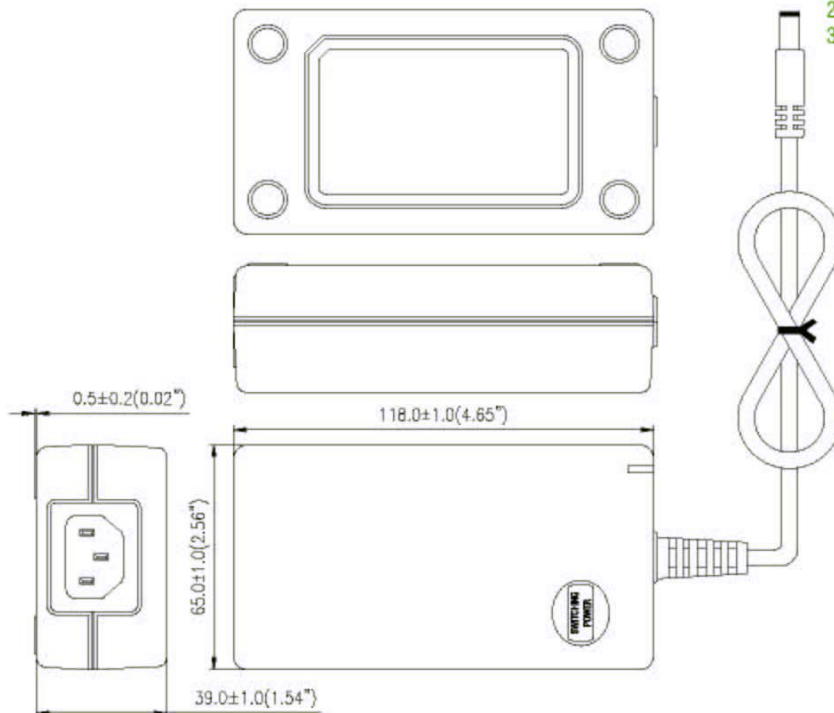


## OUTPUT VOLTAGE AND CURRENT RANGE

Model No.	Output Voltage	Max. Output Current	Total Regulation	Max. Output Power	Safety
▶ NSP-MDT30-101	3~5VDC	6.66~4.00A	5%	20W	UL/cUL, TUV-GS,CE,CB
▶ NSP-MDT30-102	5~6VDC	5.00~4.16A	5%	25W	UL/cUL, TUV-GS,CE,CB
▶ NSP-MDT30-103	6~8VDC	4.16~3.12A	5%	25W	UL/cUL, TUV-GS,CE,CB
▶ NSP-MDT30-104	8~11VDC	3.75~2.72A	4%	30W	UL/cUL, TUV-GS,CE,CB
▶ NSP-MDT30-105	11~13VDC	2.72~2.30A	3%	30W	UL/cUL, TUV-GS,CE,CB
▶ NSP-MDT30-106	13~16VDC	2.30~1.87A	3%	30W	UL/cUL, TUV-GS,CE,CB
▶ NSP-MDT30-107	16~21VDC	1.87~1.42A	3%	30W	UL/cUL, TUV-GS,CE,CB
▶ NSP-MDT30-108	21~27VDC	1.42~1.11A	2%	30W	UL/cUL, TUV-GS,CE,CB
▶ NSP-MDT30-109	27~33VDC	1.11~0.91A	2%	30W	UL/cUL, TUV-GS,CE,CB
▶ NSP-MDT30-110	33~40VDC	0.90~0.75A	2%	30W	UL/cUL, TUV-GS,CE,CB
Model No.	Output Voltage	Max. Output Current	Total Regulation	Max. Output Power	Safety
▶ NSP-MDT30-200	+3.3VDC +12.0VDC	3.00A 1.30A	7% 5%	25W	UL/cUL, TUV-GS,CE,CB
▶ NSP-MDT30-201	+5.0VDC +12.0VDC	3.00A 1.30A	5% 5%	30W	UL/cUL, TUV-GS,CE,CB
▶ NSP-MDT30-202	+5.0VDC +15.0VDC	3.00A 1.00A	5% 5%	30W	UL/cUL, TUV-GS,CE,CB
▶ NSP-MDT30-203	+5.0VDC +24.0VDC	3.00A 0.70A	5% 5%	30W	UL/cUL, TUV-GS,CE,CB
▶ NSP-MDT30-204	+3.3VDC +5.0VDC	3.00A 1.60A	7% 5%	17.9W	UL/cUL, TUV-GS,CE,CB
▶ NSP-MDT30-209	+12.0VDC -12.0VDC	2.00A 0.50A	5% 10%	30W	UL/cUL, TUV-GS,CE,CB
▶ NSP-MDT30-210	+15.0VDC -15.0VDC	1.50A 0.50A	5% 10%	30W	UL/cUL, TUV-GS,CE,CB
▶ NSP-MDT30-215	+5.0VDC -24.0VDC	2.50A 1.00A	5% 10%	30W	UL/cUL, TUV-GS,CE,CB

Model No.	Output Voltage	Max. Output Current	Total Regulation	Max. Output Power	Safety
▶ NSP-MDT30-301	+5.0VDC	2.50A	5%	25W	UL/cUL, TUV-GS,CE,CB
	+12.0VDC	1.30A	5%		
	-5.0VDC	0.50A	10%		
▶ NSP-MDT30-302	+5.0VDC	2.50A	5%	30W	UL/cUL, TUV-GS,CE,CB,TUV-PSE
	+12.0VDC	1.00A	5%		
	-12.0VDC	0.50A	10%		
▶ NSP-MDT30-303	+5.0VDC	2.50A	5%	30W	UL/cUL, TUV-GS,CE,CB
	+15.0VDC	1.00A	5%		
	-15.0VDC	0.50A	10%		
▶ NSP-MDT30-304	+5.0VDC	3.00A	5%	30W	UL/cUL, TUV-GS,CE,CB
	+24.0VDC	1.00A	5%		
	-24.0VDC	0.50A	10%		
▶ NSP-MDT30-305	+5.0VDC	2.50A	5%	30W	UL/cUL, TUV-GS,CE,CB
	+24.0VDC	1.00A	5%		
	-12.0VDC	0.50A	10%		
▶ NSP-MDT30-306	+3.3VDC	2.50A	7%	25W	UL/cUL, TUV-GS,CE,CB
	+12.0VDC	1.10A	5%		
	-5.0VDC	0.50A	10%		

### Mechanical Specifications:



**Note:**

1. Dimensions are shown in inches or mm.
2. Weight: 400-460gs approx.
3. Optional output connector:  
See page Appendix.