

## MPU31 series

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

The MPU31 series of AC/DC switching mode power supplies provide 30 Watts of continuous output power . All supplies are UL94V-1 min compliant. They are 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 ANSI/AAMI ES 60601-1: 2005(UL/cUL 3rd Edition), EN 60601-1:2006 (TUV/T-mark 3rd Edition) and new CE requirements. All units are 100% burned in and tested.



#### Features

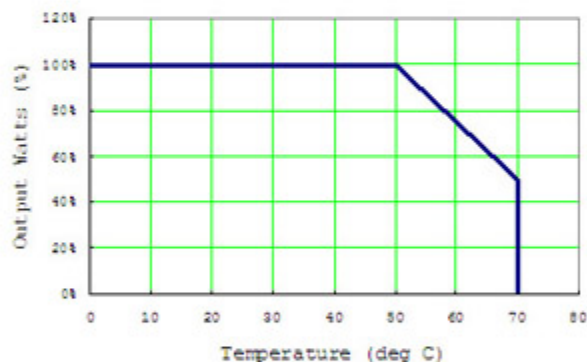
- Wide Operating Voltage 90 to 264 VAC, 47 to 63 Hz
- IEC-320-C14 Input Inlet
- Single to Triple Output
- Class I
- 3 year warranty

#### Electrical characteristics

- Efficiency: 83% typ.
- 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
- Derate linearly from 100% load at 50°C to 50% load at 70°C
- Storage Temperature: -40~85°C
- Operating Humidity : 0~95%
- Storage Humidity: 0~95%
- MTBF: 100,000 calculated hours



Model No.	Output Voltage	Max. Output Current	Total Regulation	Max. Output Power	Certificate
▶MPU31-101	3~5VDC	6.66~4.00A	7%	20W	UL, CB, CE, FCC, TUV T-mark, PSE, RoHS
▶MPU31-102	5~6VDC	5.00~4.16A	5%	25W	UL, CB, CE, FCC, TUV T-mark, PSE, RoHS
▶MPU31-103	6~8VDC	4.16~3.12A	5%	25W	UL, CB, CE, FCC, TUV T-mark, CEC level V, PSE, RoHS
▶MPU31-104	8~11VDC	3.75~2.72A	4%	30W	UL, CB, CE, FCC, TUV T-mark, CEC level V, PSE, RoHS
▶MPU31-105	11~13VDC	2.72~2.30A	3%	30W	UL, CB, CE, FCC, TUV T-mark, CEC level V, PSE, RoHS
▶MPU31-106	13~16VDC	2.30~1.87A	3%	30W	UL, CB, CE, FCC, TUV T-mark, CEC level V, PSE (13~15V), RoHS
▶MPU31-107	16~21VDC	1.87~1.42A	3%	30W	UL, CB, CE, FCC, TUV T-mark, CEC level V, PSE, RoHS
▶MPU31-108	21~27VDC	1.42~1.11A	3%	30W	UL, CB, CE, FCC, TUV T-mark, CEC level V, RoHS
▶MPU31-109	27~33VDC	1.11~0.90A	2%	30W	UL, CB, CE, FCC, TUV T-mark, CEC level V, RoHS
▶MPU31-110	33~40VDC	0.90~0.75A	2%	30W	UL, CB, CE, FCC, TUV T-mark, CEC level V, RoHS

Model No.	Output Voltage	Max. Output Current	Total Regulation	Max. Output Power	Safety
▶MPU31-200	+3.3VDC +12.0VDC	3.00A 1.30A	7% 5%	25W	UL, CB, CE, FCC, TUV T-mark, PSE, RoHS
▶MPU31-201	+5.0VDC +12.0VDC	3.00A 1.30A	5% 5%	30W	UL, CB, CE, FCC, TUV T-mark, PSE, RoHS
▶MPU31-202	+5.0VDC +15.0VDC	3.00A 1.00A	5% 5%	30W	UL, CB, CE, FCC, TUV T-mark, PSE, RoHS
▶MPU31-203	+5.0VDC +24.0VDC	3.00A 0.70A	5% 5%	30W	UL, CB, CE, FCC, TUV T-mark, RoHS
▶MPU31-204	+3.3VDC +5.0VDC	3.00A 1.60A	7% 5%	17.9W	UL, CB, CE, FCC, TUV T-mark, PSE, RoHS
▶MPU31-209	+12.0VDC -12.0VDC	2.00A 0.50A	5% 10%	30W	UL, CB, CE, FCC, TUV T-mark, PSE, RoHS
▶MPU31-210	+15.0VDC -15.0VDC	1.50A 0.50A	5% 10%	30W	UL, CB, CE, FCC, TUV T-mark, PSE, RoHS
▶MPU31-215	+5.0VDC -24.0VDC	2.50A 1.00A	5% 10%	30W	UL, CB, CE, FCC, TUV T-mark, RoHS
▶MPU31-301	+5.0VDC +12.0VDC -5.0VDC	2.50A 1.30A 0.50A	5% 5% 10%	25W	UL, CB, CE, FCC, TUV T-mark, PSE, RoHS
▶MPU31-302	+5.0VDC +12.0VDC -12.0VDC	2.50A 1.00A 0.50A	5% 5% 10%	30W	UL, CB, CE, FCC, TUV T-mark, PSE, RoHS
▶MPU31-303	+5.0VDC +15.0VDC -15.0VDC	2.50A 1.00A 0.50A	5% 5% 10%	30W	UL, CB, CE, FCC, TUV T-mark, PSE, RoHS
▶MPU31-304	+5.0VDC +24.0VDC -24.0VDC	3.00A 1.00A 0.50A	5% 5% 10%	30W	UL, CB, CE, FCC, TUV T-mark, RoHS
▶MPU31-305	+5.0VDC +24.0VDC -12.0VDC	2.50A 1.00A 0.50A	5% 5% 10%	30W	UL, CB, CE, FCC, TUV T-mark, RoHS
▶MPU31-306	+3.3VDC +12.0VDC -5.0VDC	2.50A 1.10A 0.50A	7% 5% 10%	25W	UL, CB, CE, FCC, TUV T-mark, PSE, RoHS