

## 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.



**RoHS2**  
2011/65/EU

**Agree to apply for the PSE if order on hand**

#### Features

Wide Operating Voltage 80 to 275 VAC, 47 to 63 Hz

IEC-320-C14 Input Inlet

Single to Triple Output

Class I

Medical Safety 3rd (EN60601-1 3rd Edition)

Input to Output : 2MOPP

5 year warranty

#### Specification & safety report



Data

sheet (MPU31)



CE



FCC



CB



CEC (V)



UL (NOA)



TUV T-mark

#### 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: -10 to 70°C

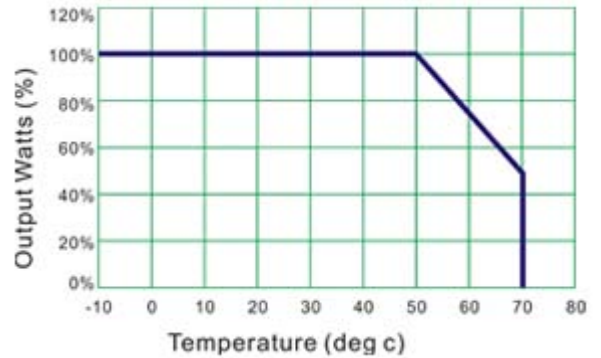
Derate linearly from 100% load at 50°C to 50% load at 70°C

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/cUL, CB, CE, FCC, TUV T-mark, RoHS2
▶ MPU31-102	5~6VDC	5.00~4.16A	5%	25W	UL/cUL, CB, CE, FCC, TUV T-mark, RoHS2
▶ MPU31-103	6~8VDC	4.16~3.12A	5%	25W	UL/cUL, CB, CE, FCC, TUV T-mark, CEC-V, RoHS2
▶ MPU31-104	8~11VDC	3.75~2.72A	4%	30W	UL/cUL, CB, CE, FCC, TUV T-mark, CEC-V, RoHS2
▶ MPU31-105	11~13VDC	2.72~2.30A	3%	30W	UL/cUL, CB, CE, FCC, TUV T-mark, CEC-V, RoHS2
▶ MPU31-106	13~16VDC	2.30~1.87A	3%	30W	UL/cUL, CB, CE, FCC, TUV T-mark, CEC-V, RoHS2
▶ MPU31-107	16~21VDC	1.87~1.42A	3%	30W	UL/cUL, CB, CE, FCC, TUV T-mark, CEC-V, RoHS2
▶ MPU31-108	21~27VDC	1.42~1.11A	3%	30W	UL/cUL, CB, CE, FCC, TUV T-mark, CEC-V, RoHS2
▶ MPU31-109	27~33VDC	1.11~0.90A	2%	30W	UL/cUL, CB, CE, FCC, TUV T-mark, CEC-V, RoHS2
▶ MPU31-110	33~40VDC	0.90~0.75A	2%	30W	UL/cUL, CB, CE, FCC, TUV T-mark, CEC-V, RoHS2

Model No.	Output Voltage	Max. Output Current	Total Regulation	Max. Output Power	Safety
▶ MPU31-200	+3.3VDC	3.00A	7%	25W	UL/cUL, CB, CE, FCC, TUV T-mark, RoHS2
	+12.0VDC	1.30A	5%		
▶ MPU31-201	+5.0VDC	3.00A	5%	30W	UL/cUL, CB, CE, FCC, TUV T-mark, RoHS2
	+12.0VDC	1.30A	5%		
▶ MPU31-202	+5.0VDC	3.00A	5%	30W	UL/cUL, CB, CE, FCC, TUV T-mark, RoHS2
	+15.0VDC	1.00A	5%		
▶ MPU31-203	+5.0VDC	3.00A	5%	30W	UL/cUL, CB, CE, FCC, TUV T-mark, RoHS2
	+24.0VDC	0.70A	5%		
▶ MPU31-204	+3.3VDC	3.00A	7%	17.9W	UL/cUL, CB, CE, FCC, TUV T-mark, RoHS2
	+5.0VDC	1.60A	5%		
▶ MPU31-209	+12.0VDC	2.00A	5%	30W	UL/cUL, CB, CE, FCC, TUV T-mark, RoHS2
	-12.0VDC	0.50A	10%		

▶ MPU31-210	+15.0VDC	1.50A	5%	30W	UL/cUL, CB, CE, FCC, TUV T-mark, RoHS2
	-15.0VDC	0.50A	10%		
▶ MPU31-215	+5.0VDC	2.50A	5%	30W	UL/cUL, CB, CE, FCC, TUV T-mark, RoHS2
	-24.0VDC	1.00A	10%		

Model No.	Output Voltage	Max. Output Current	Total Regulation	Max. Output Power	Safety
▶ MPU31-301	+5.0VDC	2.50A	5%	25W	UL/cUL, CB, CE, FCC, TUV T-mark, RoHS2
	+12.0VDC	1.30A	5%		
	-5.0VDC	0.50A	10%		
▶ MPU31-302	+5.0VDC	2.50A	5%	30W	UL/cUL, CB, CE, FCC, TUV T-mark, RoHS2
	+12.0VDC	1.00A	5%		
	-12.0VDC	0.50A	10%		
▶ MPU31-303	+5.0VDC	2.50A	5%	30W	UL/cUL, CB, CE, FCC, TUV T-mark, RoHS2
	+15.0VDC	1.00A	5%		
	-15.0VDC	0.50A	10%		
▶ MPU31-304	+5.0VDC	3.00A	5%	30W	UL/cUL, CB, CE, FCC, TUV T-mark, RoHS2
	+24.0VDC	1.00A	5%		
	-24.0VDC	0.50A	10%		
▶ MPU31-305	+5.0VDC+24.0VDC	2.50A	5%	30W	UL/cUL, CB, CE, FCC, TUV T-mark, RoHS2
	-12.0VDC	1.00A	5%		
		0.50A	10%		
▶ MPU31-306	+3.3VDC	2.50A	7%	25W	UL/cUL, CB, CE, FCC, TUV T-mark, RoHS2
	+12.0VDC	1.10A	5%		
	-5.0VDC	0.50A	10%		