

MPU51 series

50W Desktop type switching power supplies for Medical Equipment

The MPU51 series of AC/DC switching mode power supplies provide 50 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
Input Surge Current, Over Voltage and Over Load Protection
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 (MPU51)



CB



CE



FCC



PSE (101~106)



PSE (106~109)



PSE (109~111)



PSE (200~303)



PSE (304~306)



UL (NOA)



TUV T-mark

Electrical characteristics

Efficiency: 83% typ.
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: -10 to 70°C

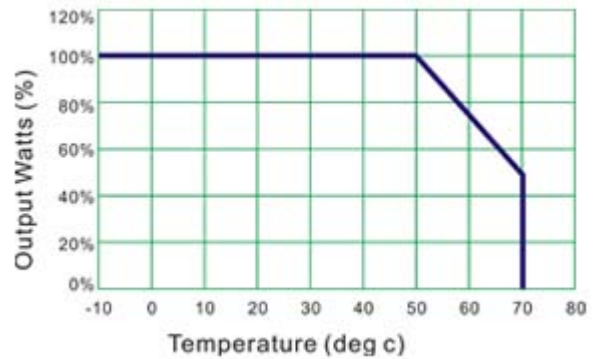
Derate linearly from 100% load at 50°C to 50% load at 70°C

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
▶ MPU51-101	3~5VDC	10.0~8.00A	5%	40W	UL/cUL, CE, CB, TUV T-mark, FCC, PSE, RoHS2
▶ MPU51-102	5~6VDC	8.00~6.66A	5%	40W	UL/cUL, CE, CB, TUV T-mark, FCC, PSE, RoHS2
▶ MPU51-103	6~8VDC	7.00~5.25A	5%	42W	UL/cUL, CE, CB, TUV T-mark, FCC, PSE, RoHS2
▶ MPU51-104	8~11VDC	5.63~4.09A	4%	45W	UL/cUL, CE, CB, TUV T-mark, FCC, PSE, RoHS2
▶ MPU51-105	11~13VDC	4.09~3.46A	3%	45W	UL/cUL, CE, CB, TUV T-mark, FCC, PSE, RoHS2
▶ MPU51-106	13~16VDC	3.46~2.81A	3%	45W	UL/cUL, CE, CB, TUV T-mark, FCC, PSE, RoHS2
▶ MPU51-107	16~21VDC	3.12~2.38A	3%	50W	UL/cUL, CE, CB, TUV T-mark, FCC, PSE, RoHS2
▶ MPU51-108	21~27VDC	2.38~1.85A	2%	50W	UL/cUL, CE, CB, TUV T-mark, FCC, PSE, RoHS2
▶ MPU51-109	27~33VDC	1.85~1.51A	2%	50W	UL/cUL, CE, CB, TUV T-mark, FCC, PSE, RoHS2
▶ MPU51-110	33~40VDC	1.51~1.25A	2%	50W	UL/cUL, CE, CB, TUV T-mark, FCC, PSE, RoHS2
▶ MPU51-111	40~50VDC	1.25~1.00A	2%	50W	UL/cUL, CE, CB, TUV T-mark, FCC, PSE, RoHS2

Model No.	Output Voltage	Max. Output Current	Total Regulation	Max. Output Power	Certificate
▶ MPU51-200	+3.3VDC +12.0VDC	5.00A 2.00A	7% 5%	40W	UL/cUL, CE, CB, TUV T-mark, FCC, PSE, RoHS2
▶ MPU51-201	+5.0VDC +12.0VDC	5.00A 2.00A	5% 5%	42W	UL/cUL, CE, CB, TUV T-mark, FCC, PSE, RoHS2
▶ MPU51-202	+5.0VDC +15.0VDC	5.00A 1.50A	5% 6%	42W	UL/cUL, CE, CB, TUV T-mark, FCC, PSE, RoHS2
▶ MPU51-203	+5.0VDC +24.0VDC	5.00A 1.00A	5% 5%	42W	UL/cUL, CE, CB, TUV T-mark, FCC, PSE, RoHS2

▶ MPU51-204	+3.3VDC +5.0VDC	5.00A 2.00A	7% 5%	26.5W	UL/cUL, CE, CB, TUV T-mark, FCC, PSE, RoHS2
▶ MPU51-209	+12.0VDC -12.0VDC	3.00A 1.00A	5% 5%	42W	UL/cUL, CE, CB, TUV T-mark, FCC, PSE, RoHS2
▶ MPU51-210	+15.0VDC -15.0VDC	2.00A 1.00A	5% 5%	42W	UL/cUL, CE, CB, TUV T-mark, FCC, PSE, RoHS2

Model No.	Output Voltage	Max. Output Current	Total Regulation	Max. Output Power	Certificate
▶ MPU51-300	+3.3VDC +12.0VDC -12.0VDC	5.00A 2.00A 0.80A	7% 5% 5%	42W	UL/cUL, CE, CB, TUV T-mark, FCC, PSE, RoHS2
▶ MPU51-301	+5.0VDC +12.0VDC -5.0VDC	5.00A 2.00A 0.80A	5% 5% 5%	42W	UL/cUL, CE, CB, TUV T-mark, FCC, PSE, RoHS2
▶ MPU51-302	+5.0VDC +12.0VDC -12.0VDC	5.00A 2.00A 0.80A	5% 5% 5%	42W	UL/cUL, CE, CB, TUV T-mark, FCC, PSE, RoHS2
▶ MPU51-303	+5.0VDC +15.0VDC -15.0VDC	5.00A 2.00A 0.80A	5% 6% 5%	42W	UL/cUL, CE, CB, TUV T-mark, FCC, PSE, RoHS2
▶ MPU51-304	+5.0VDC +24.0VDC -24.0VDC	5.00A 1.00A 0.50A	5% 5% 5%	42W	UL/cUL, CE, CB, TUV T-mark, FCC, PSE, RoHS2
▶ MPU51-305	+5.0VDC +24.0VDC -12.0VDC	5.00A 1.00A 0.80A	5% 5% 5%	42W	UL/cUL, CE, CB, TUV T-mark, FCC, PSE, RoHS2
▶ MPU51-306	+3.3VDC +12.0VDC -5.0VDC	5.00A 2.00A 0.80A	7% 5% 5%	42W	UL/cUL, CE, CB, TUV T-mark, FCC, PSE, RoHS2