



MBU60 series

63W Open frame type switching power supplies for Medical Equipment

The MBU60 series of compact, open frame constructed, AC/DC switching mode power supplies provide 63 Watts of continuous output power .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 UL/c-UL(UL 60601-1:2ndEdition) ,TUV/T-mark(EN 60601-1:2ndEdition) and new CE requirements. All units are 100% burned in and tested.



Features

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

Input connector mates with Molex housing 09-50-3051 and Molex 2478 series crimp terminal

Output connector mates with Molex housing 09-50-3081 and Molex 2478 series crimp terminal

Single to Quad Output

Size: 3"x5"x1.1"

Class I

5 year warranty

Specification & safety report



Data



CB



CE



T-mark



UL

sheet (MBU60)

Electrical characteristics

Efficiency: 80% typ.

Line Regulation: 1% max.

Load Regulation: 7% max.

Hold-up Time: 16mS min.

Output ripple and noise: 0.5% (max).

(The Ripple & Noise which is under 3.3VDC at 2% max)

Environmental

Operating Temperature: 0 to 70°C

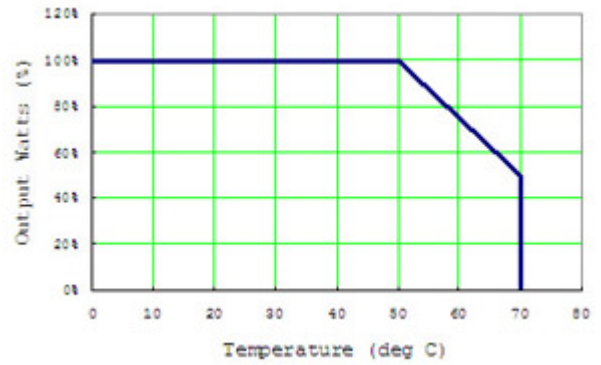
Derate linearly from 100% load at 50°C to 50% load at 70°C

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
▶MBU60-101	3-5VDC	16.66-10.0A	5%	50W	UL/cUL, TUV T-mark, CB, CE, RoHS2
▶MBU60-102	5-6VDC	11.0-9.16A	5%	55W	UL/cUL, TUV T-mark, CB, CE, RoHS2
▶MBU60-103	6-8VDC	10.0-7.50A	5%	60W	UL/cUL, TUV T-mark, CB, CE, RoHS2
▶MBU60-104	8-11VDC	7.87-5.72A	3%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
▶MBU60-105	11-13VDC	5.72-4.84A	3%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
▶MBU60-105-1	11-13VDC	4.09-3.46A	3%	45W	UL/cUL, TUV T-mark, CB, CE, RoHS2
▶MBU60-106	13-16VDC	4.84-3.93A	3%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
▶MBU60-107	16-21VDC	3.93-3.00A	3%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
▶MBU60-108	21-27VDC	3.00-2.33A	2%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
▶MBU60-109	27-33VDC	2.33-1.90A	2%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
▶MBU60-110	33-40VDC	1.90-1.57A	2%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2

Model No.	Output Voltage	Max. Output Current	Total Regulation	Max. Output Power	Certificate
▶MBU60-200	+3.3VDC +12.0VDC	7.0A 3.0A	6% 5%	59.1W	UL/cUL, TUV T-mark, CB, CE, RoHS2
▶MBU60-201	+5.0VDC +12.0VDC	7.0A 3.0A	5% 5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
▶MBU60-202	+5.0VDC +15.0VDC	7.0A 3.0A	5% 5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
▶MBU60-203	+5.0VDC +24.0VDC	7.0A 2.0A	5% 5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
▶MBU60-204	+3.3VDC +5.0VDC	7.0A 5.0A	6% 5%	48.1W	UL/cUL, TUV T-mark, CB, CE, RoHS2
▶MBU60-215	+5.0VDC -24.0VDC	7.0A 2.0A	5% 5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2

Model No.	Output Voltage	Max. Output Current	Total Regulation	Max. Output Power	Certificate
► MBU60-300	+3.3VDC +12.0VDC -12.0VDC	6.0A 3.0A 0.8A	6% 5% 5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
► MBU60-300-1	+3.3VDC +12.0VDC +12.0VDC	6.0A 3.0A 0.8A	6% 5% 5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
► MBU60-301	+5.0VDC +12.0VDC -5.0VDC	6.0A 3.0A 0.8A	5% 5% 5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
► MBU60-301-1	+5.0VDC +12.0VDC +5.0VDC	6.0A 3.0A 0.8A	5% 5% 5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
► MBU60-302	+5.0VDC +12.0VDC -12.0VDC	6.0A 3.0A 0.8A	5% 5% 5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
► MBU60-302-1	+5.0VDC +12.0VDC +12.0VDC	6.0A 3.0A 0.8A	5% 5% 5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
► MBU60-303	+5.0VDC +15.0VDC -15.0VDC	6.0A 3.0A 0.8A	5% 5% 5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
► MBU60-303-1	+5.0VDC +15.0VDC +15.0VDC	6.0A 3.0A 0.8A	5% 5% 5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
► MBU60-305	+5.0VDC +24.0VDC -12.0VDC	6.0A 2.0A 0.8A	5% 5% 5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
► MBU60-305-1	+5.0VDC +24.0VDC +12.0VDC	6.0A 2.0A 0.8A	5% 5% 5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
► MBU60-306	+3.3VDC +12.0VDC -5.0VDC	6.0A 3.0A 0.8A	6% 5% 5%	59.8W	UL/cUL, TUV T-mark, CB, CE, RoHS2
► MBU60-306-1	+3.3VDC +12.0VDC +5.0VDC	6.0A 3.0A 0.8A	6% 5% 5%	59.8W	UL/cUL, TUV T-mark, CB, CE, RoHS2
► MBU60-308	+3.3VDC +5.0VDC -12.0VDC	5.0A 5.0A 1.0A	6% 5% 5%	53.5W	UL/cUL, TUV T-mark, CB, CE, RoHS2
► MBU60-308-1	+3.3VDC +5.0VDC +12.0VDC	5.0A 5.0A 1.0A	6% 5% 5%	53.5W	UL/cUL, TUV T-mark, CB, CE, RoHS2

▶ MBU60-320	+5.0VDC	0.7A	5%	55.95W	None Safety Approvals
	+55.0VDC	0.91A	5%		
	+24.0VDC	0.1A	5%		

Model No.	Output Voltage	Max. Output Current	Total Regulation	Max. Output Power	Certificate
▶ MBU60-400	+3.3VDC	6.0A	6%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
	+12.0VDC	3.0A	5%		
	-12.0VDC	0.8A	5%		
	-5.0VDC	0.8A	5%		
▶ MBU60-400-1	+3.3VDC	6.0A	6%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
	+12.0VDC	3.0A	5%		
	-12.0VDC	0.8A	5%		
	+5.0VDC	0.8A	5%		
▶ MBU60-400-2	+3.3VDC	6.0A	6%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
	+12.0VDC	3.0A	5%		
	+12.0VDC	0.8A	5%		
	-5.0VDC	0.8A	5%		
▶ MBU60-400-3	+3.3VDC	6.0A	6%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
	+12.0VDC	3.0A	5%		
	+12.0VDC	0.8A	5%		
	+5.0VDC	0.8A	5%		
▶ MBU60-401	+5.0VDC	6.0A	5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
	+12.0VDC	3.0A	5%		
	-12.0VDC	0.8A	5%		
	-5.0VDC	0.8A	5%		
▶ MBU60-401-1	+5.0VDC	6.0A	5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
	+12.0VDC	3.0A	5%		
	-12.0VDC	0.8A	5%		
	+5.0VDC	0.8A	5%		
▶ MBU60-401-2	+5.0VDC	6.0A	5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
	+12.0VDC	3.0A	5%		
	+12.0VDC	0.8A	5%		
	-5.0VDC	0.8A	5%		
▶ MBU60-401-3	+5.0VDC	6.0A	5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
	+12.0VDC	3.0A	5%		
	+12.0VDC	0.8A	5%		
	+5.0VDC	0.8A	5%		
▶ MBU60-402	+5.0VDC	6.0A	5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
	+12.0VDC	3.0A	5%		
	-12.0VDC	0.8A	5%		
	-12.0VDC	0.8A	5%		
▶ MBU60-402-1	+5.0VDC	6.0A	5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
	+12.0VDC	3.0A	5%		
	-12.0VDC	0.8A	5%		

	+12.0VDC	0.8A	5%		
▶ MBU60-402-2	+5.0VDC +12.0VDC +12.0VDC -12.0VDC	6.0A 3.0A 0.8A 0.8A	5% 5% 5% 5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
▶ MBU60-402-3	+5.0VDC +12.0VDC +12.0VDC +12.0VDC	6.0A 3.0A 0.8A 0.8A	5% 5% 5% 5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
▶ MBU60-403	+5.0VDC +12.0VDC -12.0VDC -24.0VDC	6.0A 3.0A 0.8A 0.8A	5% 5% 5% 5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
▶ MBU60-403-1	+5.0VDC +12.0VDC -12.0VDC +24.0VDC	6.0A 3.0A 0.8A 0.8A	5% 5% 5% 5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
▶ MBU60-403-2	+5.0VDC +12.0VDC +12.0VDC -24.0VDC	6.0A 3.0A 0.8A 0.8A	5% 5% 5% 5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
▶ MBU60-403-3	+5.0VDC +12.0VDC +12.0VDC +24.0VDC	6.0A 3.0A 0.8A 0.8A	5% 5% 5% 5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
▶ MBU60-404	+5.0VDC +15.0VDC -15.0VDC -5.0VDC	6.0A 3.0A 0.8A 0.8A	5% 5% 5% 5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
▶ MBU60-404-1	+5.0VDC +15.0VDC -15.0VDC +5.0VDC	6.0A 3.0A 0.8A 0.8A	5% 5% 5% 5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
▶ MBU60-404-2	+5.0VDC +15.0VDC +15.0VDC -5.0VDC	6.0A 3.0A 0.8A 0.8A	5% 5% 5% 5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2
▶ MBU60-404-3	+5.0VDC +15.0VDC +15.0VDC +5.0VDC	6.0A 3.0A 0.8A 0.8A	5% 5% 5% 5%	63W	UL/cUL, TUV T-mark, CB, CE, RoHS2