

MPU 31

Medical

30 W

Country of Origin: Taiwan
 Operating Temperature: 0 °C – 70 °C
 Dimensions: 118 x 65 x 38.5 mm
 Approvals / Marks:



Features:

Switching Power Supply For Medical Equipment. Compliant With EN 60601-1:2006 (3rd edition)
 Wide Operating Voltage AC 90 V – 264 V, 47 Hz – 63 Hz
 Energy Star 2.0, Efficiency Level V, ErP Stage 2
 1 Year Warranty

Specifications:

		OUTPUT				
SINGLE OUTPUT	MODEL	Voltage	min. Load	max. Load	Tolerance	Max. Power
	MPU 31-101	3 V – 5 V	0 A	6.66 A – 4.00 A	7 %	20 W
	MPU 31-102	5 V – 6 V	0 A	5.00 A – 4.16 A	5 %	25 W
	MPU 31-103	6 V – 8 V	0 A	4.16 A – 3.12 A	5 %	25 W
	MPU 31-104	8 V – 11 V	0 A	3.75 A – 2.72 A	4 %	30 W
	MPU 31-105	11 V – 13 V	0 A	2.72 A – 2.30 A	3 %	30 W
	MPU 31-106	13 V – 16 V	0 A	2.30 A – 1.87 A	3 %	30 W
	MPU 31-107	16 V – 21 V	0 A	1.87 A – 1.42 A	3 %	30 W
	MPU 31-108	21 V – 27 V	0 A	1.42 A – 1.11 A	2 %	30 W
	MPU 31-109	27 V – 33 V	0 A	1.11 A – 0.90 A	2 %	30 W
	MPU 31-110	33 V – 40 V	0 A	0.90 A – 0.75 A	2 %	30 W

		Output #1				Output #2				Output #3				Maximum Output Power	
MULTIPLE OUTPUT	MODEL	V	A min	A max	Reg.	V	A min	A max	Reg.	V	A min	A max	Reg.		
	MPU 31-200	3.3	0.30	3.0	7 %	12.0	0.13	1.3	5 %						25 W
	MPU 31-201	5.0	0.30	3.0	5 %	12.0	0.13	1.3	5 %						30 W
	MPU 31-202	5.0	0.30	3.0	5 %	15.0	0.10	1.0	5 %						30 W
	MPU 31-203	5.0	0.30	3.0	5 %	24.0	0.07	0.7	5 %						30 W
	MPU 31-204	3.3	0.30	3.0	7 %	5.0	0.16	1.6	5 %						17.9 W
	MPU 31-209	12.0	0.20	2.0	5 %						-12.0	0.05	0.5	10 %	30 W
	MPU 31-210	15.0	0.15	1.5	5 %						-15.0	0.05	0.5	10 %	30 W
	MPU 31-215	5.0	0.30	3.0	5 %						-24.0	0.10	1.0	10 %	30 W
	MPU 31-301	5.0	0.25	2.5	5 %	12.0	0.11	1.1	5 %		-5.0	0.05	0.5	10 %	25 W
	MPU 31-302	5.0	0.25	2.5	5 %	12.0	0.10	1.0	5 %		-12.0	0.05	0.5	10 %	30 W
	MPU 31-303	5.0	0.25	2.5	5 %	15.0	0.10	1.0	5 %		-15.0	0.05	0.5	10 %	30 W
	MPU 31-304	5.0	0.30	3.0	5 %	24.0	0.10	1.0	5 %		-24.0	0.05	0.5	10 %	30 W
MPU 31-305	5.0	0.30	3.0	5 %	24.0	0.10	1.0	5 %		-12.0	0.05	0.5	10 %	30 W	
MPU 31-306	3.3	0.30	3.0	7 %	12.0	0.11	1.1	5 %		-5.0	0.05	0.5	10 %	25 W	

INPUT	Voltage	AC 90 V – 264 V
	Frequency	47 Hz – 63 Hz
	Current (max)	0.9 A max. / 0.34 A max. (at Low Line / High Line input)
	Leakage Current	0.1 mA
	Surge Current	15 A max. / 38 A max. (at Low Line / High Line input)

PROTECTION	Overload	110 % – 150 %
	Over Voltage	112 % – 132 %
	Short Circuit	Yes
	No Load Operation	0.5 W max.

OTHERS	Setup time	2 s max.
	Holdup time	12 ms typ.
	Cooling	Convection
	Withstand Voltage	5656 V Primary to Secondary / 2828 V Primary to Ground
Environment	Temperature	Operation: 0 °C – 70 °C (derating at 50 °C) / Storage: -40 °C – 85 °C
	Humidity	Operation: 0 % RH – 95 % RH / Storage: 0 % RH – 95 % RH
Connection	Output	Standard Plug: 5.5 m x 2.1 mm
	Input	IEC 320-C14 inlet
MTBF		100,000 h according to MIL-HDBK-217F
SAFETY		ANSI/AAMI ES 60601-1:2005 (UL/cULL 3 rd edition) EN 60601-1:2006 (3 rd edition)
EMC	EMI	EN 55022 / EN 61000
	EMS	EN 55024
WEIGHT		400 g – 460 g

MPU31-103-104 are required to use AWG#16 / 4FT output cable.

MPU31-105-108 are required to use AWG#18 / 6FT output cable.

MPU31-109-110 are required to use AWG#20 / 6FT output cable.

The regulation and efficiency will be changed by modified output cable.

