MPU250A Series 250W Desk Top Power Adaptor



The MPU250A series of AC/DC switching mode power supplies provide 250 Watts of continuous output power. All models meet FCC Part-18, CISPR-11 and EN55011 class B emission Limits, IEC 60601-1-2 and are designed to comply with UL/cUL and conformity assessment in CE marking. All units pass burn-in test at full load condition.



APPROVALS:



FEATURES:

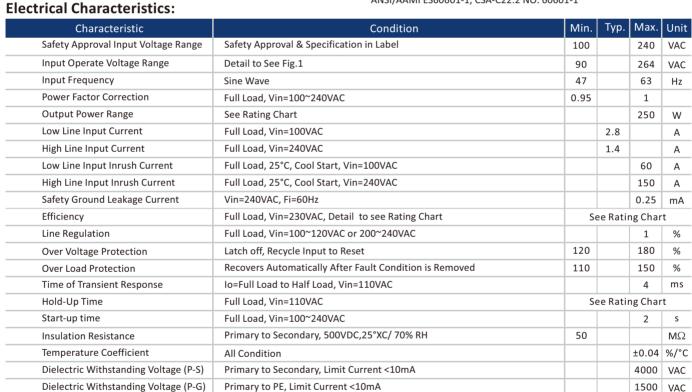
- * Wide Operating Voltage, 90 to 264 VAC, 47 to 63 Hz
- * IEC-320-C14 Input Inlet
- * Single Output
- * Over Voltage Protection
- * Input to Output: 2MOPP
- * Active Power Factor Correction
- * High ESD Immunity
- * Suitable Professional Healthcare Facility
- * Low Earth Leakage Current < 0.25mA
- * 5-Year Warranty

APPLICATIONS:

- * Medical Equipment
- * Patient Monitor
- * Ultrasound System
- * Blood Chemistry Analyzer
- * Medical Image

GENERAL SPECIFICATION:

- * Short Circuit Protection: Auto Recovery
- * Cooling: Free Air Convection
- Protection Classes: Class I
- * Safety: IEC 60601-1 Edition 3.1, IEC 60601-1 Edition 3.2, EN 60601-1, ANSI/AAMI ES60601-1, CSA-C22.2 NO. 60601-1



Environmental:

EMC Emission

Dielectric Withstanding Voltage (S-G)

Characteristic	Condition	Min.	Тур.	Max.	Unit
Operating Temperature	Detail to See Fig.1 & Fig.2	-10		70	°C
Storage Temperature	10 ~ 95% RH	-40		85	°C
Operating Humidity	Non-Condensing	0		95%	RH
Storage Humidity		0		95%	RH
Electro Static Discharge	Air Discharge, IEC61000-4-2			15	kV
Electro Static Discharge	Contact Discharge, IEC61000-4-2			8	kV
Mean Time Between Failure	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F	200k			h
Operating Altitude (Elevation)	All Condition			3000	m
Vibration	10 ~ 500Hz, 10min./1cycle, 60min. Each Along X, Y, Z Axes			5	G
Surge Voltage	Line-Neutral			1	kV
Surge Voltage	Line-PE & Neutral-PE			2	kV

Secondary to PE, Limit Current < 10mA

Compliance to EN55011 (CISPR11), EN60601-1-2

500

В

VDC

Class

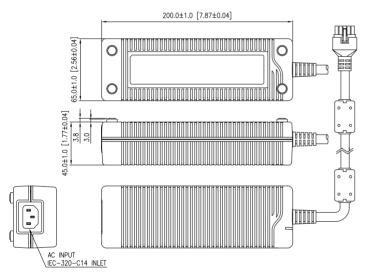
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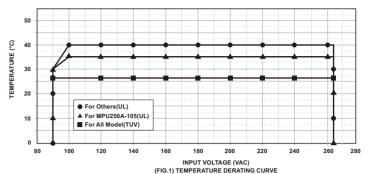


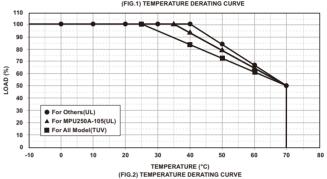
SPECIFICATION NOTE:

- Output can provide up to peak load when the power supply starts up. Continuous staying in more than rated load is not allowed.
- At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
- 3. Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line at rated load.
- 4. Load regulation is defined by changing $\pm 40\%$ of measured output load from 60% rated load.
- The ripple is measured from peak to peak with a bandwidth-limit of 20MHz (Measured at the output connector with a 0.1uF ceramic capacitor and a 47uF electrolytic capacitor).
- 6. Hold up time is measured from the end of the last charging pulse to the time which the main output drops down to low limit of main output at rated load and nominal line.
- 7. Efficiency is measured at rated load, and nominal line.

MECHANICAL DIMENSIONS: (UNIT: mm [inch])







OUTPUT CABLE RECOMMEND:

- 1. Selected output connectors and wire, please refer to Appendix.
- 2. This series is required to use AWG#16/8C/2FT output cable.
- 3. The regulation and efficiency will be changed by modified output cable.

PACKING:

- 1. Net weight: 765g approx.
- 2. Optional output connectors available contact sales for details.

Rating Chart:

MODEL NO.	Setting Voltage Range (Factory setting, can't be adjusted)	Output Current (Based on the output volt.)	Maximum Output Power	Ripple & Noise	Total Regulation	Typ. Efficiency	Typ. No Load Consumption	Hold-Up Time	Protection Mode
	(VDC)	(A)	(W)	(mVp-p)	(%)	(%)	(W)	(ms)	
MPU250A-105	12.0	19.16	230	120	±5	90	0.21	16	Hiccup
MPU250A-107	19.0	13.15	250	190	±5	91	0.21	16	Hiccup
MPU250A-108	24.0	10.41	250	240	±3	91	0.21	16	Hiccup
MPU250A-109	30.0	8.32	250	300	±3	91	0.21	16	Hiccup
MPU250A-110	36.0	6.94	250	360	±3	92	0.21	16	Hiccup
MPU250A-111	48.0	5.20	250	480	±3	92	0.21	16	Hiccup