

AC-DC POWER SUPPLY

UNIVERSAL INPUT, DESK TOP, 230-310 WATTS

MEDICAL APPLICATIONS

MUI310 Series



FEATURES

- Active PFC Function DoE VI compliance
- RoHS Compliant
- Over Voltage Protection Built-In
- Over Current Protection Built-In
- Over Temperature Protection Built-In
- Short Circuit Protection Built-In
- LED Indication
- MTBF > 50,000Khrs
- Safety Approvals: UL/CUL 60601, TUV 60601, CB 60601, CE, FCC
- Dimensions: 7.78 × 4.01 × 2.01

SELECTION GUIDE All specifications are typical at nominal input, rated output current and 25°C, unless otherwise noted.

Max. Output Power W	Output Voltage* Vo	Min Load (Io)	Max Load (Io) A	Load Regulation %	Line Regulation %	Model Number**
230	12	0	19.16	±5	±1	MUI230-12S-A
240	12	0	20	±5	±1	MUI240-12S-A
250	12	0	20.85	±5	±1	MUI250-12S-A
260	19	0	13.68	±5	±1	MUI260-19S-A
270	19	0	14.21	±5	±1	MUI270-19S-A
270	32	0	8.43	±5	±1	MUI270-32S-A
270	44	0	6.13	±5	±1	MUI270-44S-A
280	19	0	14.73	±5	±1	MUI280-19S-A
290	19	0	15.26	±5	±1	MUI290-19S-A
300	19	0	15.78	±5	±1	MUI300-19S-A
310	32	0	9.68	±5	±1	MUI310-32S-A
310	44	0	7.04	±5	±1	MUI310-44S-A

HIGH VOLTAGE
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Rietbachstrasse 7, 8952 Schlieren (ZH), Switzerland

MUI310-24SP

Input Specifications

Input range, Vac	90 - 264
Frequency, Hz	50 - 60
Input current, A	≤ 5 at 230Vac
Inrush current, A	≤ 150 at cold start
Hold-up time, mS	≥ 8.3
Turn on time, s	3.0

Output Specifications

Over current protection	Auto recovery
Over voltage protection	Latch off
Short circuit protection	Auto recovery
Over temperature protection	Latch off

Environmental Specifications

Operating temperature range, °C	0 to 40
Storage temperature range, °C	-20 to 85
Storage humidity range, %	5 - 95

Physical Specifications

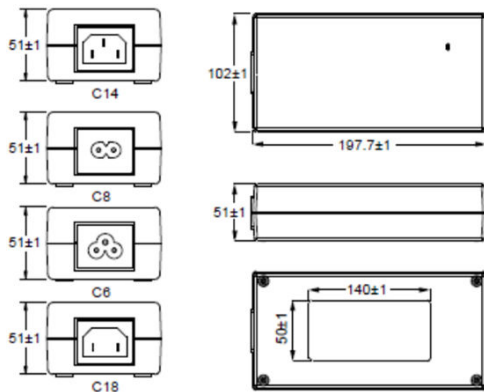
Design meet safety standard	UL/CUL 60601, TUV 60601, CB 60601, CE, FCC
Dimensions, inches (mm)	7.78 × 4.01 × 2.01 (197.7 × 102 × 51)
Weight, g	1700
AC inlet	C14, C8, C6, C18

Note:

1. Ripple noise is measured by using 20MHz bandwidth limited oscilloscope and termincaed each output with a 0.1uF ceramic capacitor and Parallel with 47uF aluminum capacitor at full load and nominal line.
2. Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line at rated load.
3. Max. Output Power (W) $\geq V_o \times I_o$
4. For further information, please contact Polytron Devices.

CAUTION: This power module is not internally fused. An input line fuse must always be used.

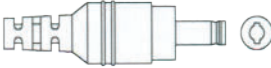
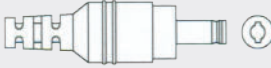
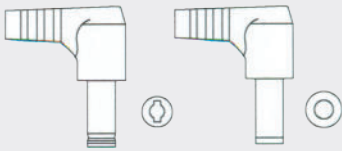
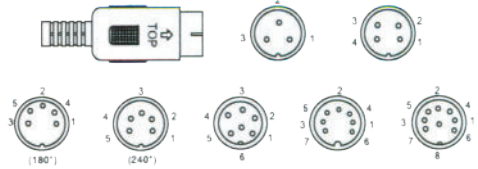
Mechanical Drawing



1. All dimensions in mm
2. All Tolerance: ± 0.50

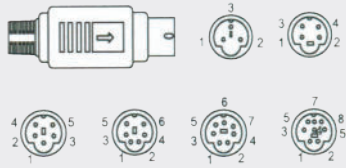
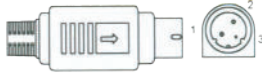
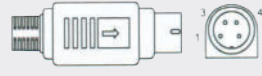
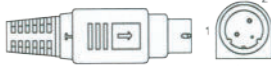
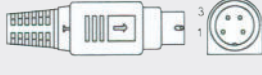
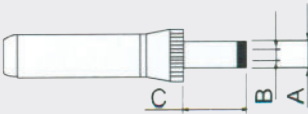
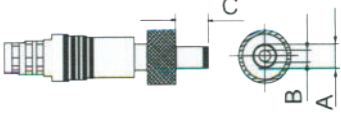
MUI310 Series

Plug List of Output Cable

2Code	Plug Type	Specification	Outline / Drawing
00	Strip & Tined	NC	
01	Barrel Type	5.5 × 2.1	
02		5.5 × 2.5	
03		4.75 × 1.7	
04		4.0 × 1.7	
05		3.5 × 1.35	
06		2.35 × 0.7	
07		6.3 × 3.0	
08		6.5 × 1.4	
11	Barrel Type Right Angle	5.5 × 2.1	
12		5.5 × 2.5	
13		4.75 × 1.7	
14		4.0 × 1.7	
15		3.5 × 1.35	
16		2.35 × 0.7	
17		6.3 × 3.0	
18		6.5 × 1.4	
21	Din (male)	3Pin	
22		4Pin	
23		5Pin (180°)	
24		5Pin (240°)	
25		6Pin	
26		7Pin	
27		8Pin	

MUI310 Series

Plug List of Output Cable (cont.)

2Code	Plug Type	Specification	Outline / Drawing
31	Mini-Din (male)	3Pin	
32		4Pin	
33		5Pin	
34		6Pin	
35		7Pin	
36		8Pin	
41	Power-Mini Din (male)	3Pin (Molding)	
42		4Pin (Molding)	
45		3Pin (Assembly/Lock Type)	
46		4Pin (Assembly/Lock Type)	
61	Interchangeable Connector	2Pin	
62		2Pin	
63		3Pin	
71	Switchcraft Locking Type	A:5.5, B:2.5 C:0.375" (9.52mm)	
72		A:5.5, B:2.5 C:0.475" (12.06mm)	
73		A:5.5, B:2.1 C:0.375" (9.52mm)	
74		A:5.5, B:2.5 C:0.475" (12.06mm)	
81	DC Jack with Screw	A:5.5, B:2.1, C:7.5	
82		A:5.5, B:2.1, C:10.1	
91	Cigarette Lighter		