



FEATURES

- Medical 60601-1 Safety Approvals
- Small 4.00 x 2.00 x 1.25" Footprint
- 60W/72W Peak - Convection Cooled
- High Efficiency - Up to 87%
- Less than 0.5W No Load Input Power
- EN55011 / FCC Part 15J Class B Emissions
- 3 Year Warranty

GENERAL SPECIFICATIONS

Efficiency	87% typical at 115/230 VAC, full load
Isolation	3000 VAC Input to Output
MTBF	>100K Hours, Mil-217F at 25 °C, full load
Weight	160g

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	0°C ~ +40°C (convection cooled)
Derating	2.5%/°C > 40°C, up to 60°C max
Storage Temperature	-40°C ~ +80°C
Operating Humidity	5~95% (non-condensing)
Operating Altitude	3000M (max)
Shock	30 m/s ² , 10mS on 3 axes
Vibration	10-55 Hz, 19.6 m/s ² (2G), 20mins on 3 axes

INPUT SPECIFICATIONS

Input Voltage	90-264 VAC (Universal)
Input Frequency	47-63Hz
Input Current	1.5A _{RMS} at 115VAC
Inrush Current	<100A @ 240 VAC, Cold Start
No Load	<0.5W No Load Input Power
Earth Leakage Current	<100µA @ 264VAC(Class I)
Patient Leakage Current	<100µA @ 264VAC
Input Protection	Internal T3.15A/ 250V Fuse (Line & Neutral)

OUTPUT SPECIFICATIONS

Output Voltage	See Table
Line Regulation	±0.5%
Load Regulation	±1%
Minimum Load	None
Transient Response	±5%, 50% step-load, slew rate 1A/µS
Ripple / Noise	1% pk-pk typical
Turn-On Delay	3 seconds max @ 115VAC
Hold-Up Time	>10ms at 115VAC Input (Full Load)
Over-Voltage	Primary Side Sense & By Zener Diode
Over-Load	120-150% (Hiccup Mode, Auto-Recovery)
Short Circuit	Hiccup Mode
Over-Temperature	Auto-recovery

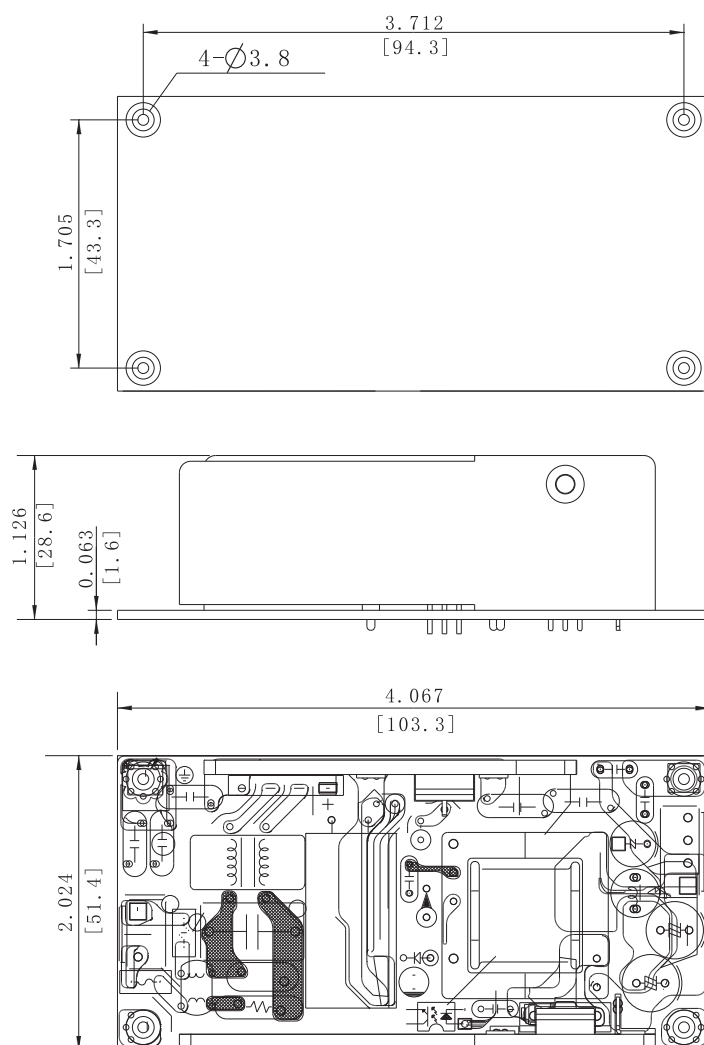
EMC & SAFETY

Emissions	EN55011, FCC Part J15, Class B, Conducted EN55011, FCC Part J15, Class B, Radiated
Harmonic Current	EN61000-3-2 Class A
Voltage Flicker	EN61000-3-3
ESD	EN61000-4-2, 6kV contact, 8kV Air Discharge
Radiated Immunity	EN61000-4-3, 3V/m, Criterion A
EFT/Burst	EN61000-4-4, Level 3, Criterion A
Surge	EN61000-4-5, InstallationClass 3, Criterion A
Conducted Immunity	EN61000-4-6, 3V _{RMS} , Criterion A
Magnetic Field	EN61000-4-8, 3A/m, Criterion A
Dips & Interruptions	EN61000-4-11, Class 3 Criterion A/B/C

Safety Approvals
IEC 60601-1, 3rd Edition
ANSI / AAMI ES60601-1
CSA C22.2 No 60601-1
EN60601-1, 3rd Edition
CE Mark

MODELS	MAIN OUTPUT VOLTAGE	OUTPUT CURRENT	PEAK CURRENT	RIPPLE & NOISE (MAX)	MAX TOTAL REGULATION
MP060-12	12V	5.0A	6A	120mV	±2%
MP060-19	19V	3.15A	3.8A	190mV	±2%
MP060-24	24V	2.5A	3.0A	240mV	±2%
MP060-28	28V	2.14A	2.57A	280mV	±2%
MP060-48	48V	1.25A	1.5A	480mV	±2%

OUTLINE DRAWING



INPUT CONNECTOR

Molex 35978-0330

Housing: Molex 35977-0390

Terminal: Molex 35922-9001

CONNECTIONS

PIN 1	Line
PIN 2	N/C
PIN 3	Neutral

OUTPUT CONNECTOR

Molex 35978-0430

Housing: Molex 35977-0490

Terminal: Molex 35922-9002

CONNECTIONS

PIN 1	+Vo
PIN 2	+Vo
PIN 3	Return
PIN 4	Return