



FEATURES

- Medical 60601 Safety Approvals
- Small 7.99 x 4.09 x 1.81" Footprint
- Universal AC Input with Active PFC
- IPX1 Rated Enclosure
- Class I or Class II Construction
- 3 Year Warranty
- Class B Radiated and Conducted Emissions
- BF Compliant Isolation

INPUT SPECIFICATIONS

Input Voltage	90-264 VAC (Universal)
Input Frequency	47-63Hz
Input Current	3.5A _{RMS} at 115VAC
Inrush Current	<150A @ 240 VAC, Cold Start
Power Factor	>0.97
Leakage Current	<100µA @ 264VAC
No Load Input Power	< 0.5W @ 240 VAC

OUTPUT SPECIFICATIONS

Output Voltage	See Table
Line Regulation	±0.5%
Load Regulation	±5%
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	>20ms at 115VAC Input
Over-Voltage	110-140% Latching
Over-Load	Hiccup Mode, Auto-Recovery
Short Circuit	Hiccup Mode
Over-Temperature	Latching, recycle input and cool to reset

GENERAL SPECIFICATIONS

Efficiency	90% typical at 115/230 VAC, full load
Isolation	Input to Output: 4000 VAC Input to Ground(Class I): 1500VAC Output to Ground(Class I): 1500 VAC
MTBF	200K Hours, Mil-217F at 25 °C, full load
Weight	960g
Means of Protection	2x MOPP (input to output)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	0°C ~ +50°C
Derating	5%/°C > 40°C, up to 50°C max
Storage Temperature	-40°C ~ +80°C
Operating Humidity	10~95% (non-condensing)
Operating Altitude	3000M (max)
Shock	49 m/s ² , 10ms on 3 axes
Vibration	10-50Hz, 19.6 m/s ² (2G), 20mins on 3 axes

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
EFT/Burst	EN61000-4-4, Level 3, Criterion A
Surge	EN61000-4-5, Level 3, Criterion A
Conducted Immunity	EN61000-4-6, 3V _{RMS} , Criterion A
Radiated Immunity	EN61000-4-3, 3V/m, Criterion A
Magnetic Field	EN61000-4-8, 3A/m, Criterion A
Dips & Interruptions	EN61000-4-11, 0% 10ms, 40% 100ms, 70% 500ms, 0% 5000ms; Criterion A/B/C
Safety Approvals	IEC60601-1, 3rd Edition ANSI / AAMI ES60601-1 CSA 22.2 No. 60601-1 EN60601-1, 3rd Edition CE Mark (LVD)



MODELS	OUTPUT VOLTAGE	OUTPUT CURRENT	PEAK CURRENT	RIPPLE & NOISE (MAX)	MAX TOTAL REGULATION
MANGO200-12xy	12V	15.00A	18.0A	120mV	±5%
MANGO200-19xy	19V	10.52A	12.6A	190mV	±5%
MANGO200-24xy	24V	8.33A	10.0A	240mV	±5%
MANGO200-28xy	28V	7.14A	8.6A	280mV	±5%
MANGO200-48xy	48V	4.17A	5.0A	480mV	±5%

* Designate Input Type and Safety Class by replacing "x" with the following:

"A" for IEC320-C14 Inlet (Class I Safety Approvals)

"C" for IEC320-C18 Inlet (Class II Safety Approvals)

"B" for IEC320-C8 Inlet (Class II Safety Approvals)

* Designate DC Output Connector by replacing "y" with the following:

"D" for for 8 Pin DIN Connector

"M" for Molex Connector Part Number 39-01-2060 or equivalent

"K" for Power Mini - Din Non Locking Connector

* Other Connectors available upon request, please consult factory. Consult factory for unique Voltage setpoints or other modifications.

OUTLINE DRAWING

