



#### FEATURES

- Medical 60601-1 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
- High Efficiency - Level V
- CEC 2008 / ErP2 / EISA 2007 Compliant
- EN55011 / FCC Part 15J Class B Emissions
- 3 Year Warranty

#### INPUT SPECIFICATIONS

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

#### OUTPUT SPECIFICATIONS

<b>Output Voltage</b>	See Table
<b>Line Regulation</b>	±0.5%
<b>Load Regulation</b>	±5%
<b>Minimum Load</b>	None
<b>Transient Response</b>	±5%, 50% step-load, slew rate 1A/μS
<b>Ripple / Noise</b>	1% pk-pk typical
<b>Turn-On Delay</b>	3 seconds max @ 115VAC
<b>Hold-Up Time</b>	>20ms at 115VAC Input
<b>Over-Voltage</b>	110-140% Latching
<b>Over-Load</b>	Hiccup Mode, Auto-Recovery
<b>Short Circuit</b>	Hiccup Mode
<b>Over-Temperature</b>	Latching, recycle input and cool to reset

#### GENERAL SPECIFICATIONS

<b>Efficiency</b>	90% typical at 115/230 VAC, full load
<b>Isolation</b>	4000 VAC Input to Output 1500 VAC Input to Ground 500 VDC Output to Ground
<b>MTBF</b>	200K Hours, Mil-217F at 25 °C, full load
<b>Weight</b>	960g

#### ENVIRONMENTAL SPECIFICATIONS

<b>Operating Temperature</b>	0°C ~ +40°C
<b>Derating</b>	5%/°C > 40°C, up to 50°C max
<b>Storage Temperature</b>	-40°C ~ +80°C
<b>Operating Humidity</b>	10~95% (non-condensing)
<b>Operating Altitude</b>	3000M (max)
<b>Shock</b>	49m/s <sup>2</sup> , 10mS on 3 axes
<b>Vibration</b>	10-500Hz, 19.6 m/s <sup>2</sup> (2G), 20mins on 3 axes

#### EMC & SAFETY

<b>Emissions</b>	EN55011, FCC Part J15, Class B, Conducted EN55011, FCC Part J15, Class B, Radiated
<b>Harmonic Current</b>	EN61000-3-2 Class A
<b>Voltage Flicker</b>	EN61000-3-3
<b>ESD</b>	EN61000-4-2, 6kV contact, 8kV Air Discharge
<b>EFT/Burst</b>	EN61000-4-4, Level 3, Criterion A
<b>Surge</b>	EN61000-4-5, Level 3, Criterion A
<b>Conducted Immunity</b>	EN61000-4-6, 3V <sub>RMS</sub> , Criterion A
<b>Radiated Immunity</b>	EN61000-4-3, 3V/m, Criterion A
<b>Magnetic Field</b>	EN61000-4-8, 3A/m, Criterion A
<b>Dips &amp; Interruptions</b>	EN61000-4-11, 0% 10ms, 40% 100ms, 70% 500ms, 0% 5000ms; Criterion A/B/C
<b>Safety Approvals</b>	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
<b>MANGO200-12xy</b>	12V	15.00A	18.0A	120mV	±5%
<b>MANGO200-19xy</b>	19V	10.52A	12.6A	190mV	±5%
<b>MANGO200-24xy</b>	24V	8.33A	10.0A	240mV	±5%
<b>MANGO200-28xy</b>	28V	7.14A	8.6A	280mV	±5%
<b>MANGO200-48xy</b>	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 8 Pin DIN Connector

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

"K" for Kycon KPPX-4P Non Locking Connector

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

### OUTLINE DRAWING

