



FEATURES

- Medical 60601-1 Safety Approvals
- Small 7.00 x 2.66 x 1.26" Footprint
- Universal AC Input with Active PFC
- IPX1 Rated Enclosure
- Class II Construction
- High Efficiency - Level V
- High Power Density - 6.4W/in³
- CEC 2008 / ErP2 / EISA 2007 Compliant
- EN55011 / FCC Part 15J Class B Emissions
- 3 Year Warranty

INPUT SPECIFICATIONS

Input Voltage	90-264 VAC (Universal)
Input Frequency	47-63Hz
Input Current	2.5A _{RMS} at 115VAC
Inrush Current	<150A @ 240 VAC, Cold Start
Power Factor	>0.97
Leakage Current	<100μA @ 264VAC
No Load Input Power	<0.5W @ 240VAC

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 max
Turn-On Delay	3 seconds max @ 115VAC
Hold-Up Time	>25ms 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	4000 VAC Input to Output 1500 VAC Input to Ground 500 VDC Output to Ground
MTBF	200K Hours, Mil-217F at 25 °C, full load
Weight	610g

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-18°C ~ +40°C
Derating	2.5%/°C > 40°C, up to 60°C max
Storage Temperature	-40°C ~ +80°C
Operating Humidity	10~95% (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

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 Installation Class 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 UL 60601-1 CSA 22.2 No. 60601-1 EN60601-1, 3rd Edition PSE (19V, 24V & 28V Models only) CE Mark (LVD)



MODELS	OUTPUT VOLTAGE	OUTPUT CURRENT	PEAK CURRENT	RIPPLE & NOISE (MAX)	MAX TOTAL REGULATION
MANGO150-12By	12V	12.5A	15.0A	120mV	±5%
MANGO150-19By	19V	7.9A	9.5A	190mV	±5%
MANGO150-24By	24V	6.25A	7.5A	240mV	±5%
MANGO150-28By	28V	5.36A	6.4A	280mV	±5%
MANGO150-48By	48V	3.12A	3.7A	480mV	±5%

* 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 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

