150 Watt Medical Desktop Power Supply



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	\pm 5%, 50% step-load, slew rate 1A/ μ S				
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			
	4000 VAC Input to Output			
Isolation	1500 VAC Input to Ground			
	500 VDC Output to Ground			
MTBF	200K Hours, Mil-217F at 25 °C, full load			
Weight	620g			

FEATURES

- Medical 60601-1 Safety Approvals
- Small 7.72 x 2.66 x 1.26" Footprint
- Universal AC Input with Active PFC
- IPX1 Rated Enclosure
- Class I or Class II Construction
- High Efficiency Level V
- High Power Density 5.8W/in³
- CEC 2008 / ErP2 / EISA 2007 Compliant
- EN55011 / FCC Part 15J Class B Emissions
- 3 Year Warranty

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	294m/s ² , 10mS on 3 axes				
Vibration	10-500Hz, 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	nic 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 Class3, 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)			



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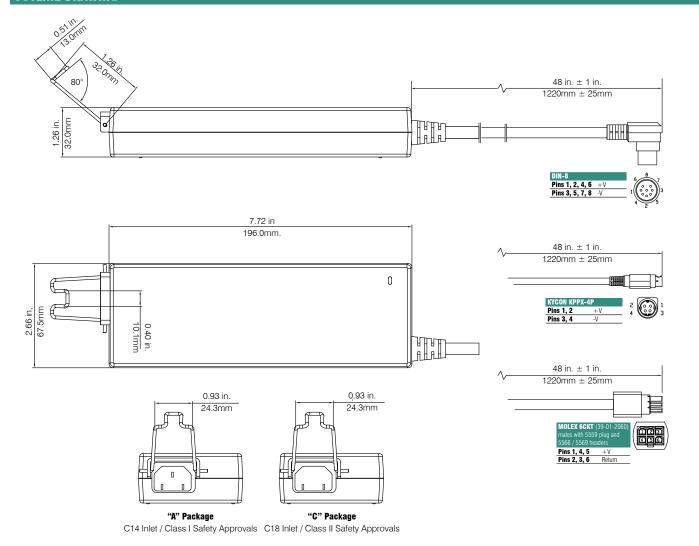
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MODELS	OUTPUT VOLTAGE	OUTPUT CURRENT	PEAK Current	RIPPLE & Noise (Max)	MAX TOTAL REGULATION
MANGO150L-12xy	12V	12.5A	15.0A	120mV	±5%
MANGO150L-19xy	19V	7.9A	9.5A	190mV	±5%
MANGO150L-24xy	24V	6.25A	7.5A	240mV	±5%
MANGO150L-28xy	28V	5.36A	6.4A	280mV	±5%
MANGO150L-48xy	48V	3.12A	3.7A	480mV	±5%

- * Designate Input Type and Safety Class by replacing "x" with the following:
 - "A" for IEC320-C14 Unlet(Class I Safety Approvals)
- "C" for IEC320-C18 Unlet(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



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