60 Watt Medical Desktop Power Supply



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INPUT SPECIFICATIONS				
Input Voltage	90-264 VAC (Universal)			
	300 VAC (maximum Non-Operating)			
Input Frequency	47-63Hz			
Input Current	1.5A _{RMS} at 115VAC			
Inrush Current	<80A @ 240 VAC, Cold Start			
Power Factor	EN61000-3-2, Class A			
Leakage Current	<100µA @ 264VAC			

< 0.3W No Load Input Power @ 240VAC

OUTPUT SPECIFICATIONS				
Output Voltage	See Table			
Line Regulation	$\pm 0.5\%$			
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	>10ms at 115VAC Input			
Over-Voltage	110-140% Latching			
Over-Load	Hiccup Mode, Auto-Recovery			
Short Circuit	Continuous			
Over-Temperature	Latching, recycle input and cool to reset			

GENERAL SPECI	FICATIONS					
Efficiency	89% 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	300g					

FEATURES

- Medical 60601-1 Safety Approvals
- Small 4.17 x 2.24 x 1.14" Footprint
- Class I or Class II Construction
- IPX1 Rated Enclosure
- High Efficiency Level V
- High Power Density 5.63W/in³
- CEC 2008 / ErP2 / EISA 2007 Compliant
- EN55011 / FCC Part 15J Class B Emissions
- 3 Year Warranty

ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature	$0^{\circ}\text{C} \sim +40^{\circ}\text{C}$				
Derating	5%/°C > 40 °C, up to 50 °C max				
Storage Temperature	-20°C ∼ +80°C				
Operating Humidity	5~95% (non-condensing)				
Operating Altitude	3000M (max)				
Shock	294m/s ² (30G), 11mS on 3 axes				
Vibration	10-500Hz, 19.6 m/s ² (2G), 20mins 3 axes				

EMC & SAFETY				
Emissions	EN55011, FCC Part J15, Class B, Conducted EN55011, FCC Part J15, Class B, Radiated			
Harmonic Current	onic 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, Class B/C			
Safety Approvals	IEC60601-1, 3rd Edition ANSI / AAMIES60601-1 CSA 22.2 No. 60601-1 EN60601-1, 3rd Edition CE Mark (LVD)			







CE



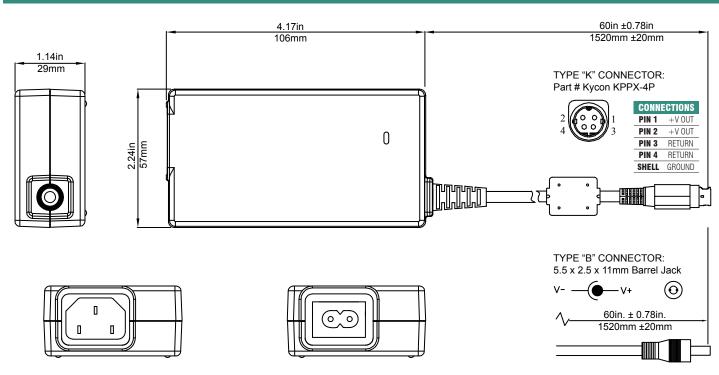
No Load Input Power

60 Watt Medical Desktop Power Supply

MODELS	OUTPUT Voltage	OUTPUT CURRENT	PEAK Current	RIPPLE & Noise (Max)	MAX TOTAL REGULATION
MANGO60-12xy	12V	5.0A	6.0A	120mV	±5%
MANGO60-19xy	19V	3.15A	3.8A	190mV	±5%
MANGO60-24xy	24V	2.5A	3.0A	240mV	±5%
MANGO60-28xy	28V	2.14A	2.6A	280mV	±5%
MANGO60-48xy	48V	1.25A	1.5A	480mV	±5%

- * Designate Input Type and Safety Class by replacing "x" with the following:
 - "A" for IEC320-C14 Inlet (Class I Safety Approvals)
- "B" for IEC-320 C8 Inlet (Class II Safety Approvals)
- * Designate DC Output Connector by replacing "y" with the following:
 - "K" for Kycon KPPX-4P Non Locking Connector
- "B" for Barrel Jack Connector (5.5 x 2.5 x 11mm)
- * Other Connectors available upon request, please consult factory. Consult factory for unique Voltage setpoints or other modifications.

OUTLINE DRAWING



MANGO60-##Ay MODELS: Class I Safety Approvals IEC-320 C14 Inlet

MANGO60-##By MODELS: Class II Safety Approvals IEC-320 C8 Inlet