



FEATURES

- Medical 60601-1(BF) Safety Approvals
- Small 6.02 x 2.43 x 1.28" Footprint
- Universal AC Input with Active PFC
- IP22 Rated Enclosure
- Class I or 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	2.0A _{RMS} at 115VAC
Inrush Current	<120A @ 240 VAC, Cold Start
Power Factor	>0.95
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	1.5 seconds max @ 115VAC
Hold-Up Time	>20ms 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 SPECIFICATIONS

Efficiency	88% typical at 115/230 VAC, full load
Isolation	Input to Output: 4000 VAC, 2xMOPP Input to Ground(Class I): 1500VAC, 1xMOPP Output to Ground(Class I): 1500 VAC, 1xMOPP
MTBF	200K Hours, Mil-217F at 25 °C, full load
Weight	500g

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	0°C ~ +40°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	294m/s ² (30G), 11ms on 3 axes, total 18 times
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	EN61000-3-2 Class A
Voltage Flicker	EN61000-3-3
ESD	EN61000-4-2, 8kV contact, 15kV 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} (6V _{RMS} ,ISM band), Criterion A
Radiated Immunity	EN61000-4-3, 3V/m(6V/m,ISM band), Criterion A
Proximity Fields Immunity	EN61000-4-3 (Table 9 in IEC60601-1-2 4 th ED)
Magnetic Field	EN61000-4-8, 30A/m, Criterion A
Dips & Interruptions	EN61000-4-11, 0% 0.5 cycles, 1 cycles; 70% 25/30 cycles; 0% 300cycles; 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
MANGO120-12xy	12V	10A	12A	120mV	±5%
MANGO120-19xy	19V	6.3A	7.5A	190mV	±5%
MANGO120-24xy	24V	5.0A	6.0A	240mV	±5%
MANGO120-28xy	28V	4.3A	5.0A	280mV	±5%
MANGO120-48xy	48V	2.5A	3.0A	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 IEC-320 C18 Inlet (Class II Safety Approvals)

"B" for IEC-320 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 6CKT Model # 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

