



FEATURES

- Medical 60601-1 Safety Approvals
- Small 1.95 x 3.78 x 1.18" Footprint
- Class I or Class II Construction
- High Efficiency - Level V
- High Power Density - 4.58W/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) 300 VAC (maximum Non-Operating)
Input Frequency	47- 63Hz
Input Current	1.0A _{RMS} at 115VAC
Inrush Current	<80A @ 240 VAC, Cold Start
Power Factor	EN61000-3-2, Class A
Leakage Current	<100uA @ 264VAC
No Load Input Power	<0.3W No Load Input Power @ 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	>10ms 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	79% for 5V output 87% for other Models
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	200g

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	0°C ~ +40°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 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 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 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
MANGO40-5xy	5V	4.00A	5.0A	50mV	±5%
MANGO40-12xy	12V	3.33A	4.0A	120mV	±5%
MANGO40-19xy	19V	2.10A	2.5A	190mV	±5%
MANGO40-24xy	24V	1.67A	2.0A	240mV	±5%
MANGO40-28xy	28V	1.43A	1.7A	280mV	±5%
MANGO40-48xy	48V	0.84A	1.0A	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 IEC320-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 x11mm)

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

OUTLINE DRAWING

