

MANGO100S-USB-PD Series



FEATURES

- Medical 60601-1 Safety Approvals
- Small 6.02 x 2.43 x 1.28" Footprint
- Universal AC Input With Active PFC
- IP22 Rated Enclosure
- Class II Construction
- High Efficiency - DoE EPS - Level VI
- High Power Density - 5.4W/in3
- 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} @ 115VAC
Inrush Current	<120A @ 240 VAC, 25°C Cold start
Power Factor	>0.91
Leakage Current	<100μA @ 264VAC
No Load Input Power	<0.15W @ 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	See Table
Turn-On Delay	1.5 seconds max @ 115VAC
Hold-Up Time	>20ms @ 115VAC, Full Load
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	86% typical @ 115/230 VAC, full load
Isolation	4000 VAC – Input to Output
MTBF	200K Hours, MIL-217F at 25 °C, full load
Weight	500g

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ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	0 ~ +40°C
Derating	5%/°C > 40°C, up to 50°C max
Storage Temperature	-40 ~ +80°C
Operating Humidity	10~95% (non-condensing)
Operating Altitude	4000M
Shock	294m/s ² (30G), 11ms, 6 times on each of 3 axes
Vibration	10~500 Hz, 19.6 g m/s ² (2G), 20 mins 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 Class 3, Criterion A
Conducted Immunity	EN61000-4-6, 3V _{RMS} (6V _{RMS} for ISM and Amateur Band) Criterion A
Radiated Immunity	EN61000-4-3, 10V/m, Criterion A
Proximity Fields Immunity	EN61000-4-3, (Table 9 in IEC60601-1-2 4 th ED)
Magnetic Field	EN61000-4-11, 0.5 cycles at 0°, 45°, 90°, 135°, 180°, 225°, 270°, 315°; 0%, 1cycle and 70% 25/30 cycles at 0°; 0%, 300 cycles, , Criterion A/B/C
Dips & Interruptions	EN60601-1, 3rd Edition
Safety Approvals	ANSI / AAMI/IE60601-1 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
MANGO100S-USB-YYY	or 5V	0.1-5.0A	5.0A	100mV	±5%
	or 9V	0.1-5.0A	5.0A	100mV	±5%
	or 10.4V	0.1-5.0A	5.0A	150mV	±5%
	or 12V	0.1-5.0A	5.0A	150mV	±5%
	or 15V	0.1-5.0A	5.0A	200mV	±5%
	or 20V	0.1-5.0A	5.0A	200mV	±5%

* vw in the table above is used to identify different customers which can be replaced by A-Z, 0-9 or blank.

* For other requests such as different connectors, unique Voltage setpoints or other modifications, please consult Megmeet for more details.

OUTLINE DRAWING

