

ELPAC XWA065 PD SERIES CLASS II

65 Watt Medical / ITE Desktop Power Supply



- Medical Approval - EN60601-1 Class II 3.2 Edition
- ITE Approval - IEC62368-1 Class II
- EMC safety - IEC/EN 60601-1-2 4th edition
- Low Leakage Current
- High Efficiency: Level VI
- High Power Density 7.39W/in³
- LED Indicator
- 5-Year Limited Warranty
- Ingress Protection: IP22
- 6dB Margin for CE/RE EMI test

Input	
Input Voltage	85 - 264VAC (100 - 240VAC Nominal)
Input Frequency	47 - 63Hz (50-60Hz Rated)
Input Current	1.6A-0.8A rms
Inrush Current	<60A at 240VAC cold start
Power Factor	N/A
Zero Load Power	<0.1W
Touch Leakage Current	<43µA @ 132VAC @ 60Hz
	<65µA @ 240VAC @ 50Hz
	<85µA @ 264VAC @ 60Hz

Output	
Output Voltage	See Table
Total Regulation	+/-5%
Minimum Load	No minimum load required
Start-Up Delay	<1.0s
Hold-Up Time	>10ms at nominal input voltage at full load
Ripple & Noise	<1% pk-pk *
Over Voltage Protection	110 - 135%
Over Temperature Protection	Active - Recoverable
Over Current Protection	105 - 130%
Short Circuit Protection	Shutdown, auto-restart (hiccup mode)

Notes
 **Ripple and noise measured with 20MHz bandwidth; 10µF tantalum capacitor in parallel with a 0.1µF ceramic capacitor.

Model Number	Output Voltage	Output Current	Peak Current ¹	Total Regulation ²	Typical Efficiency ³
XWA0653PDB-USB-C (3A version) ⁴	5.0V	3.0A	3.0A	±5%	85.0%
	9.0V	3.0A	3.0A	±5%	87.0%
	12.0V	3.0A	3.0A	±5%	88.0%
	15.0V	3.0A	3.0A	±5%	88.0%
	20.0V	3.25A	3.25A	±5%	88.5%
XWA0650PDB-USB-C (5A version) ⁴	5.0V	5.0A	5.0A	±5%	81.0%
	9.0V	5.0A	5.0A	±5%	85.0%
	12.0V	5.0A	5.0A	±5%	86.0%
	15.0V	4.33A	4.33A	±5%	87.5%
	20.0V	3.25A	3.25A	±5%	87.5%

Notes
 1) Maximum load 65W for 5A version, Maximum current 3.25A for 3A version.
 2) Includes initial setting, line regulation, load regulation, and thermal drift.

3) Typical at 115VAC with full load (including output cable).
 4) AC cord part number 67400-242-AB not included, but can be ordered separately.

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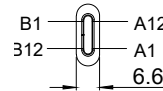
General	
Efficiency (20V output)	Avg. Efficiency 88.0% @ 115VAC Avg. Efficiency 89.0% @ 230VAC
MTBF	min. 500,000 hours, SR-332 issue 3 at 25°C
Size	3.35" (85.0mm) x 2.09" (53.0mm) x 1.26" (32.0mm)
Weight	0.58 LBS (0.263 Kg) (3A version) 0.63 LBS (0.285 Kg) (5A version)
Power Density	7.39W/in ³

Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-40°C to +80°C
Relative Humidity	5-93%, non-condensing
Cooling	Natural Convection
Vibration	Units meet MIL-STD-810G Figure 514.6C-1 category 4
Altitude	5000m

EMC & Safety - Medical	
Emissions	FCC class B, CISPR11 class B IEC/EN60601-1-2(Ed.4) EN61000-3-2, -3
Immunity	EN61000-4-2, -3, -4, -5, -6, -11
Certified by TUV to the following:	cTUVus ANSI/AAMI ES60601-1:2005+A2+A1 CAN/CSA-C22.2 No.60601-1:14 CB per IEC60601-1 3.2 Edition CE marked to LVD and CE EMC

Input & Output Configuration	
Standard Input Cable	Not Provided (P/N 67400-242-AB)
Connection on Power Supply Body	IEC 320 C8 Receptacle
Standard Output Cable	5ft (with ferrite bead)
Output Cable Cord Size	3A: 22AWG*4C+32AWG*4C 5A: 21AWG*6C+32AWG*4C
Output Cable Connector	Type-C Plug
Output Cable Mating Connector	Type-C Socket

Output Pin Assignments	
A1, B1, A12, B12	GND
A4, B4, A9, B9	VBUS
A5	CC1
B5	CC2
A6, B6	D+
A7, B7	D-



EMC & Safety - ITE	
Emissions	FCC class B, EN55035:2017+A11:2020 EN55032:2015+A11:2020
Immunity	EN61000-4-2, -3, -4, -5, -6, -11
Certified by TUV to the following:	cTUVus UL62368-1:2019 CAN/CSA-22.2 No.62368-1-19 CB per IEC 62368-1:2018 DOE EPS Energy efficiency (Level VI), EU CoC Energy efficiency (Level VI), EU ErP directive CE marked to LVD and CE EMC

