

ELPAC XWA065 PD SERIES CLASS I

65 Watt Medical / ITE Desktop Power Supply

- Medical Approval - EN60601-1 Class I 3.2 Edition
- ITE Approval - IEC62368-1 Class I
- 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



GaN
TECHNOLOGY



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
Earth Leakage Current (Typical)	<200μA @ 132VAC @ 60Hz
	<400μA @ 264VAC @ 60Hz
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
XWA0653PDA-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%
XWA0650PDA-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 67400-277-AB not included, but can be ordered separately.

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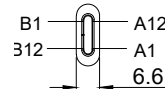
General	
Efficiency (20V output)	Avg. Efficiency 88.0% @ 115VAC Avg. Efficiency 89.0% @ 230VAC
MTBF	min. 500,000 hours, SR-332 issue 3 at 25°C
Size	3.35" (85.0mm) x 2.09" (53.0mm) x 1.26" (32.0mm)
Weight	0.62 LBS (0.280 Kg) (3A version) 0.69 LBS (0.313 Kg) (5A version)
Power Density	7.39W/in ³

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

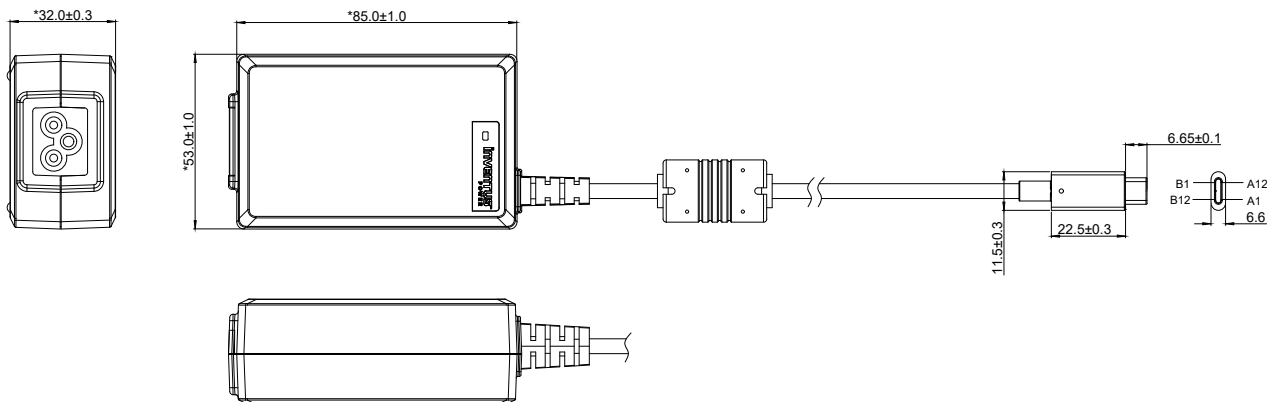
Input & Output Configuration	
Standard Input Cable	Not Provided (P/N 67400-277-AB)
Connection on Power Supply Body	IEC 320 C14 Receptacle
Standard Output Cable	5ft (with ferrite bead)
Output Cable Cord Size	3A: 2AWG*4C+32AWG*4C 5A: 1AWG*6C+32AWG*4C
Output Cable Connector	Type-C Plug
Output Cable Mating Connector	Type-C Socket
Output Type	Floating

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

Mechanical Drawing



Mouser Electronics

Authorized Distributor

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[XWA0653PDA-USB-C](#)