

ASX1100

MEDICAL GRADE MULTI-OUTPUT LOW VOLTAGE POWER SYSTEM

The Astrodyne TDI ASX1100-xx/zz-12 is a medical grade multi-output low voltage power system in a 1U rack mount configuration that is Class I input, with 10 electronically controlled and monitored 2.2A outputs (combined max. 550W) and 2 15A outputs (combined max. 550W) manually controlled via front panel switches. All outputs are 2 MOPP isolation and BF leakage current protection. This power supply can operate over the input voltage range of 90 to 264 VAC at 50-60Hz frequency and deliver up to 1100 Watts of regulated DC output power.



HOW TO ORDER

ASX1100 - XX / ZZ - 12

12 = NUMBER OF OUTPUTS

ZZ = DC OUTPUT VOLTAGE #3 - #12

XX = DC OUTPUT VOLTAGE #1 & #2

SERIES



FEATURES & BENEFITS

UNIVERSAL AC INPUT

90-264 VAC Input, 50/60 Hz

AVAILABLE OUTPUT VOLTAGES

12, 15, 18, 24, 28, 36, 48, 54VDC

OUTPUT POWER

10 outputs @ 2.2A max.

2 outputs @ 15A max.

Combined max. of 550W each

PROTECTIONS

Short circuit / Over voltage / Overload

SAFETY APPROVALS

Medical IEC 60601-1 3rd Edition Safety

EMI

EN 60601-1-2 4th Edition EMC

EN 55011 (CISPR11) Class B Emissions

BF Leakage Current, 2 MOPP Isolation

Remote Output Enable & Monitoring

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PARAMETERS

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AC Input Voltage Range	100-240 VAC nominal 90-264 VAC tested
Input Frequency	47-63 Hz (50/60 Hz nominal)
Input Current	12A max at 100VAC, 60Hz
Inrush Current	30A max at 100VAC, 60Hz
Power Factor	0.95 min at 230VAC, 50Hz
Earth Leakage Current	300uA max at 264VAC
Touch Leakage Current	<100uA at 264VAC (BF Rating)
Input Fuse	10A Dual built into IEC
Operating Temperature	-20 to +50°C at full load,
Cooling	Internal fans
Storage Temperature*	-40 to +85°C
Operating Humidity*	0% to 95%, non-condensing
Operating Altitude	0-3000m / 0-10,000 ft
Vibration	2G rms, 5-500Hz, 3 axes, 30min.
Available Output Voltages	12, 15, 18, 24, 28, 36, 48, 54VDC
Output Power	10 outputs @ 2.2A max. 2 outputs @ 15A max. Combined max. of 550W each
Minimum Load	No minimum load required
Set Point Accuracy	±1% typical
Load Regulation	±1% typical, no load to full load
Line Regulation	±0.5% max, 90-264 VAC
Efficiency	>87%
Standby Power	0.5W max
Hold-up Time	16ms typ., full load, 115VAC
Ripple and Noise	1% pk-pk max, 20MHz BW, measured with 47uF Alum and 0.1uF Ceramic at output
Input to Output	4000 VAC, 2 MOPP
Input to Earth (Class I)	1500 VAC, 1 MOPP
Output to Earth (Class I)	500 VAC

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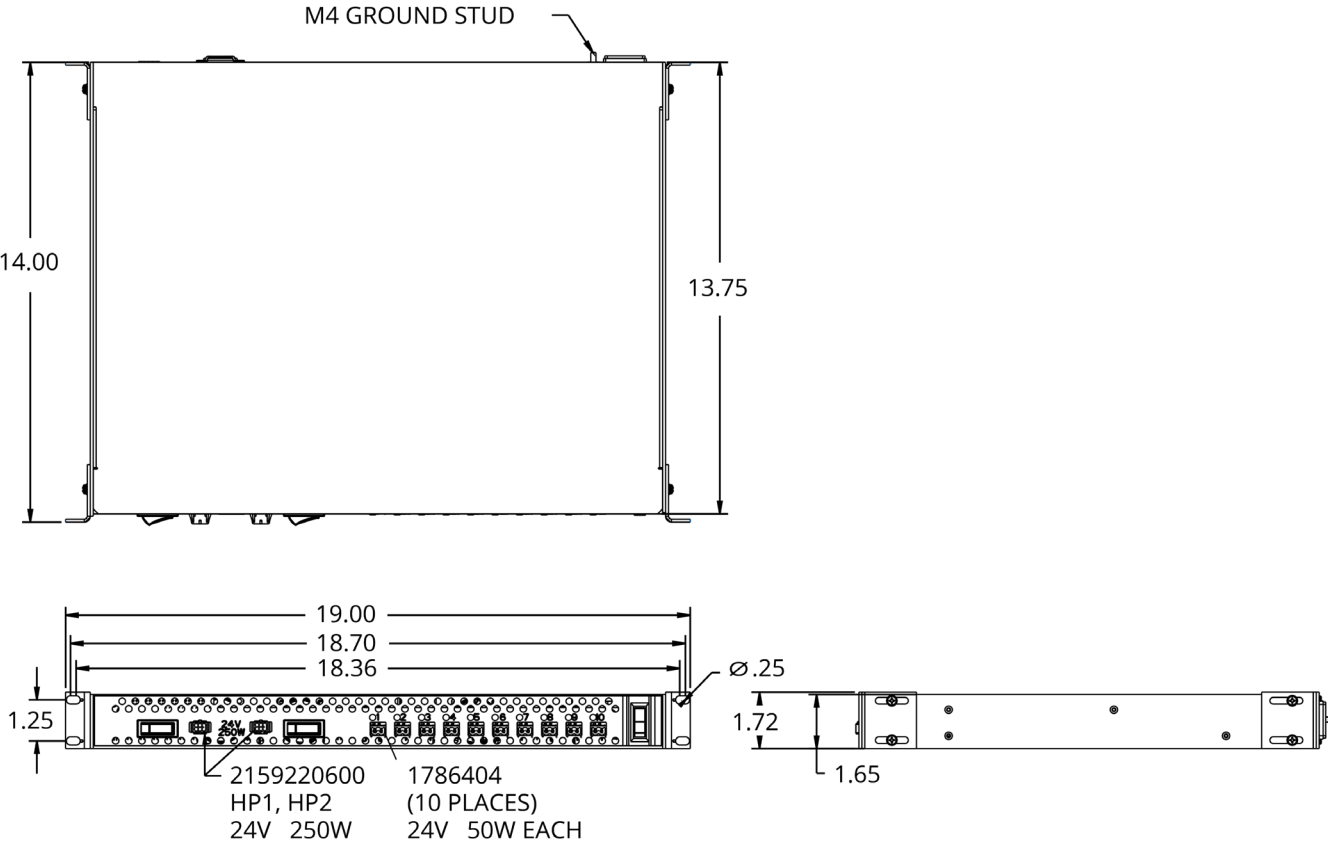
Over Current *	105 to 135% Rated Current
Short Circuit *	Hiccup Mode, Automatic recovery
Over Voltage *	130% Vo max, Latching; Recycle Input to Reset
Over Temperature *	Automatic recovery
Front panel LED's indicate	AC Input, DC Output, FAULT
Safety Approvals	IEC 60601-1 3 rd Ed, Amend 1: TUV, CB/CE, CSA C22.2
EMC Overall	EN60601-1-2, 4 th Ed, Class B
Conducted and Radiated Emissions	EN 55011 (CISPR11), Class B
Harmonic Current	EN 61000-3-2, Class A
Voltage Fluctuations	EN 61000-3-3
ESD Immunity	EN 61000-4-2, Level 4
RF Field Immunity	EN 61000-4-3, Level 3
EFT Burst Immunity	EN 61000-4-4, Level 3
Surge Immunity	EN 61000-4-5, Level 3
Conducted Immunity	EN 61000-4-6, Level 3
Magnet Field Immunity	EN 61000-4-8, Level 4
Voltage Dips and Interruptions	EN 61000-4-11
Size	Horizontal: 19" Vertical: 1.75" Depth: 14"
Weight	9 lbs
Connectors	Input- IEC60320, C14 Output- Phoenix Contact 10ea. P/N 1786404 2ea. P/N 2159220600 Comm.- DB9 Earth Ground- stud

**These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long-term reliability. Operation under conditions other than standard operating conditions is neither warranted nor implied. All specifications are typical at nominal input, full load, 25°C unless specified otherwise*

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MECHANICAL OUTLINE



PART NUMBER	DESCRIPTION
ASX1100-12/12-12	1100W Dual 12/12VDC 12 Output 1U 19" Rack Mount
ASX1100-12/15-12	1100W Dual 12/15VDC 12 Output 1U 19" Rack Mount
ASX1100-12/18-12	1100W Dual 12/18VDC 12 Output 1U 19" Rack Mount
ASX1100-12/24-12	1100W Dual 12/24VDC 12 Output 1U 19" Rack Mount
ASX1100-12/28-12	1100W Dual 12/28VDC 12 Output 1U 19" Rack Mount
ASX1100-12/36-12	1100W Dual 12/36VDC 12 Output 1U 19" Rack Mount
ASX1100-12/48-12	1100W Dual 12/48VDC 12 Output 1U 19" Rack Mount
ASX1100-12/54-12	1100W Dual 12/54VDC 12 Output 1U 19" Rack Mount



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PART NUMBER	DESCRIPTION
ASX1100-15/12-12	1100W Dual 15/12VDC 12 Output 1U 19" Rack Mount
ASX1100-15/15-12	1100W Dual 15/15VDC 12 Output 1U 19" Rack Mount
ASX1100-15/18-12	1100W Dual 15/18VDC 12 Output 1U 19" Rack Mount
ASX1100-15/24-12	1100W Dual 15/24VDC 12 Output 1U 19" Rack Mount
ASX1100-15/28-12	1100W Dual 15/28VDC 12 Output 1U 19" Rack Mount
ASX1100-15/36-12	1100W Dual 15/36VDC 12 Output 1U 19" Rack Mount
ASX1100-15/48-12	1100W Dual 15/48VDC 12 Output 1U 19" Rack Mount
ASX1100-15/54-12	1100W Dual 15/54VDC 12 Output 1U 19" Rack Mount
ASX1100-18/12-12	1100W Dual 18/12VDC 12 Output 1U 19" Rack Mount
ASX1100-18/15-12	1100W Dual 18/15VDC 12 Output 1U 19" Rack Mount
ASX1100-18/18-12	1100W Dual 18/18VDC 12 Output 1U 19" Rack Mount
ASX1100-18/24-12	1100W Dual 18/24VDC 12 Output 1U 19" Rack Mount
ASX1100-18/28-12	1100W Dual 18/28VDC 12 Output 1U 19" Rack Mount
ASX1100-18/36-12	1100W Dual 18/36VDC 12 Output 1U 19" Rack Mount
ASX1100-18/48-12	1100W Dual 18/48VDC 12 Output 1U 19" Rack Mount
ASX1100-18/54-12	1100W Dual 18/54VDC 12 Output 1U 19" Rack Mount
ASX1100-24/12-12	1100W Dual 24/12VDC 12 Output 1U 19" Rack Mount
ASX1100-24/15-12	1100W Dual 24/15VDC 12 Output 1U 19" Rack Mount
ASX1100-24/18-12	1100W Dual 24/18VDC 12 Output 1U 19" Rack Mount
ASX1100-24/24-12	1100W Dual 24/24VDC 12 Output 1U 19" Rack Mount
ASX1100-24/28-12	1100W Dual 24/28VDC 12 Output 1U 19" Rack Mount
ASX1100-24/36-12	1100W Dual 24/36VDC 12 Output 1U 19" Rack Mount
ASX1100-24/48-12	1100W Dual 24/48VDC 12 Output 1U 19" Rack Mount
ASX1100-24/54-12	1100W Dual 24/54VDC 12 Output 1U 19" Rack Mount
ASX1100-28/12-12	1100W Dual 28/12VDC 12 Output 1U 19" Rack Mount
ASX1100-28/15-12	1100W Dual 28/15VDC 12 Output 1U 19" Rack Mount
ASX1100-28/18-12	1100W Dual 28/18VDC 12 Output 1U 19" Rack Mount
ASX1100-28/24-12	1100W Dual 28/24VDC 12 Output 1U 19" Rack Mount
ASX1100-28/28-12	1100W Dual 28/28VDC 12 Output 1U 19" Rack Mount
ASX1100-28/36-12	1100W Dual 28/36VDC 12 Output 1U 19" Rack Mount
ASX1100-28/48-12	1100W Dual 28/48VDC 12 Output 1U 19" Rack Mount
ASX1100-28/54-12	1100W Dual 28/54VDC 12 Output 1U 19" Rack Mount
ASX1100-36/12-12	1100W Dual 36/12VDC 12 Output 1U 19" Rack Mount



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ASX1100-36/15-12	1100W Dual 36/15VDC 12 Output 1U 19" Rack Mount
ASX1100-36/18-12	1100W Dual 36/18VDC 12 Output 1U 19" Rack Mount
ASX1100-36/24-12	1100W Dual 36/24VDC 12 Output 1U 19" Rack Mount
ASX1100-36/28-12	1100W Dual 36/28VDC 12 Output 1U 19" Rack Mount
ASX1100-36/36-12	1100W Dual 36/36VDC 12 Output 1U 19" Rack Mount
ASX1100-36/48-12	1100W Dual 36/48VDC 12 Output 1U 19" Rack Mount
ASX1100-36/54-12	1100W Dual 36/54VDC 12 Output 1U 19" Rack Mount
ASX1100-48/12-12	1100W Dual 48/12VDC 12 Output 1U 19" Rack Mount
ASX1100-48/15-12	1100W Dual 48/15VDC 12 Output 1U 19" Rack Mount
ASX1100-48/18-12	1100W Dual 48/18VDC 12 Output 1U 19" Rack Mount
ASX1100-48/24-12	1100W Dual 48/24VDC 12 Output 1U 19" Rack Mount
ASX1100-48/28-12	1100W Dual 48/28VDC 12 Output 1U 19" Rack Mount
ASX1100-48/36-12	1100W Dual 48/36VDC 12 Output 1U 19" Rack Mount
ASX1100-48/48-12	1100W Dual 48/48VDC 12 Output 1U 19" Rack Mount
ASX1100-48/54-12	1100W Dual 48/54VDC 12 Output 1U 19" Rack Mount
ASX1100-54/12-12	1100W Dual 54/12VDC 12 Output 1U 19" Rack Mount
ASX1100-54/15-12	1100W Dual 54/15VDC 12 Output 1U 19" Rack Mount
ASX1100-54/18-12	1100W Dual 54/18VDC 12 Output 1U 19" Rack Mount
ASX1100-54/24-12	1100W Dual 54/24VDC 12 Output 1U 19" Rack Mount
ASX1100-54/36-12	1100W Dual 54/36VDC 12 Output 1U 19" Rack Mount
ASX1100-54/48-12	1100W Dual 54/48VDC 12 Output 1U 19" Rack Mount
ASX1100-54/54-12	1100W Dual 54/54VDC 12 Output 1U 19" Rack Mount