

ASX0550

MEDICAL GRADE MULTI-OUTPUT LOW VOLTAGE POWER SYSTEM

Astrodyne TDI's ASX0550-xx-20 is a medical grade multi-output low voltage power system in a 1U rack mount configuration that is Class I input, with 20 electronically controlled and monitored 2.2A outputs (combined max. 550W). 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 550 Watts of regulated DC output power. The ASX0550-xx-20 has been certified to the IEC 60601-1 3rd Edition international medical safety standard and EN 60601-1-2 4th Edition for electromagnetic compatibility.



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

20 outputs @ 2.2A 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

HOW TO ORDER

ASX0550 - XX - 20

20 = NUMBER OF OUTPUTS

XX = DC OUTPUT VOLTAGE #1 & #2

SERIES



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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	7A 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	20 outputs @ 2.2A 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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PARAMETERS

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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	8 lbs
Connectors	Input- IEC60320, C14 Output- Phoenix Contact 20ea. P/N 1786404 Comm.- DB9 Earth Ground- stud

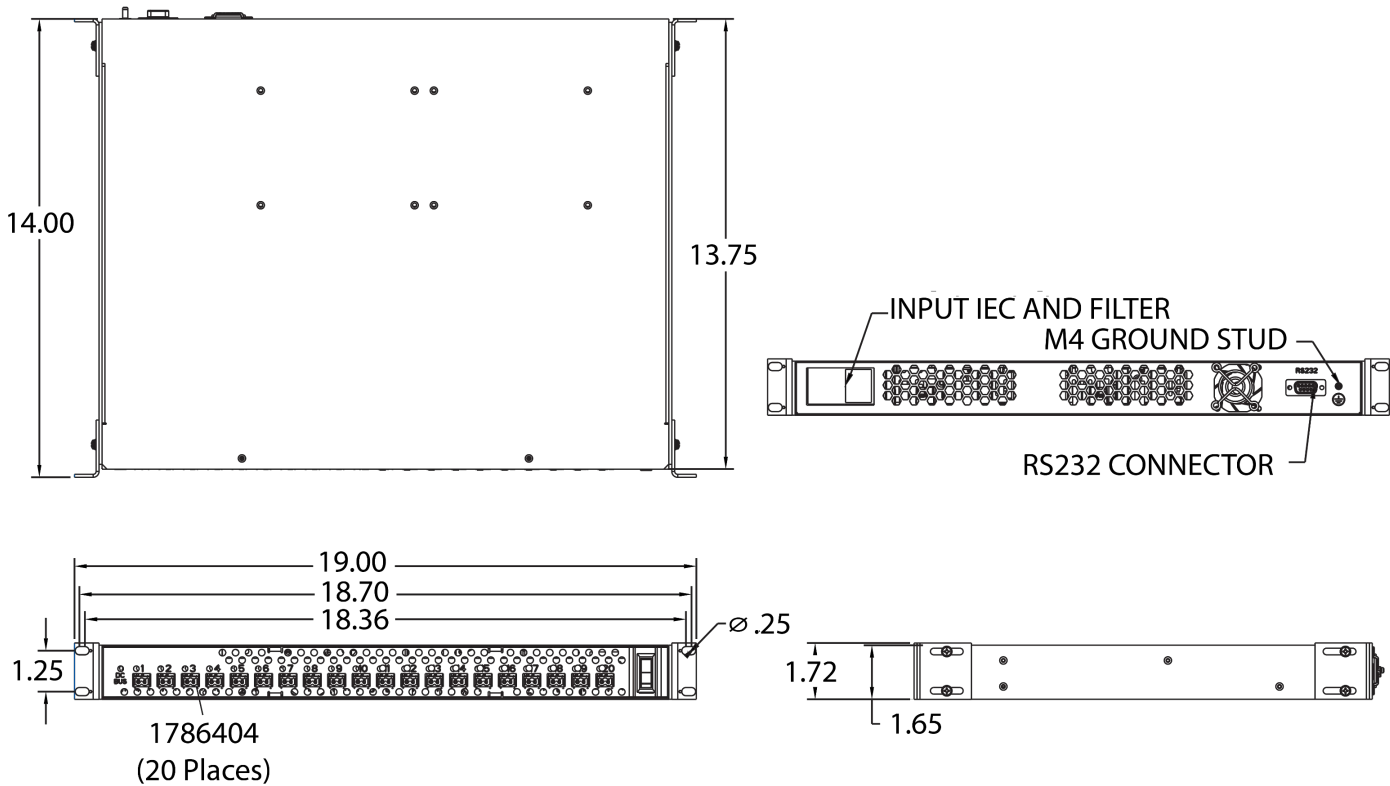
**These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long-term reliability. Operation under conditions other than standard operating conditions is neither warranted nor implied.*

All specifications are typical at nominal input, full load, 25°C unless specified otherwise

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MECHANICAL OUTLINE



PART NUMBER	DESCRIPTION
ASX0550-12-20	550W 12VDC 20 Output 1U 19" Rack Mount
ASX0550-15-20	550W 15VDC 20 Output 1U 19" Rack Mount
ASX0550-18-20	550W 18VDC 20 Output 1U 19" Rack Mount
ASX0550-24-20	550W 24VDC 20 Output 1U 19" Rack Mount
ASX0550-28-20	550W 28VDC 20 Output 1U 19" Rack Mount
ASX0550-36-20	550W 36VDC 20 Output 1U 19" Rack Mount
ASX0550-48-20	550W 48VDC 20 Output 1U 19" Rack Mount
ASX0550-54-20	550W 54VDC 20 Output 1U 19" Rack Mount