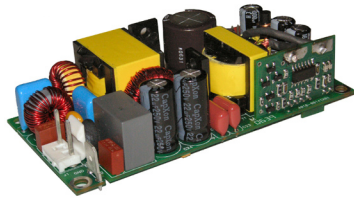
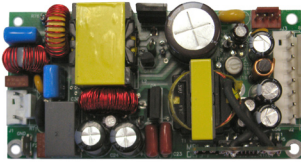




150W 2" x 4" Medical Grade Open Frame Switching Power Supplies

ASM150 series



- Single Outputs with 12V Auxillary
- Universal 90 to 264VAC Input
- 5VDC to 48VDC Outputs
- 4,000VAC Input to Output Isolation
- Short Circuit Protection
- Full Safety Approvals



Model Number	V1	I1 Air Flow Convection / 200LFM	I2 (12V aux.) Convection / 200LFM
ASM150-5	5VDC	16 / 20A	0.5 / 1A
ASM150-12	12VDC	8.3 / 13.3A	0.5 / 1A
ASM150-24	24VDC	4.2 / 6.66A	0.5 / 1A
ASM150-48	48VDC	2.1 / 3.33A	0.5 / 1A

Note: All Products are 0-100% Load Operation





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INPUT SPECIFICATIONS

Input Voltage Range (AC / DC)	90-264 / 170-370
Input Current	2A @ 90VAC
Inrush Current	No Damage @ 230VAC Cold Start
Efficiency	90% @ Full Load
Input Frequency	47-63Hz
Power Factor (90VAC)	0.98%
Input Fuse	3A Internal Line & Neutral
Under Voltage Lockout	80VAC Auto Recover
Leakage Current (115/230 I/P)	110/200uA

OUTPUT SPECIFICATIONS

Setpoint Accuracy	+/-1% Main Output V1
Voltage Adjust	5% Main Output V1
Load Regulation	+/-1% V1; +/-5% V2
Line Regulation	+/-0.1% 90-264VAC
Cross Regulation	+/-1% V1; +/-15% V2
Transient Response	
(50% Load Change)	10% Recover within 1mS
Set-Up/Rise/Hold-Up (HL; Min Load)	
	1S/10mS/16mS
Temperature Coefficient	+/-0.25mV/°C
Ripple/Noise (20Mhz filter, twisted pair with 0.1uF and 47uF parallel capacitors)	1% of Output
Overvoltage Protection	Redundant Protection for Open Feedback *
OverCurrent Protection	110-130% Auto Recover*
Short Circuit and Over Temp Protection	Auto Recovery *

GENERAL SPECIFICATIONS

I/P-O/P Isolation	4000VAC for 1 Minute
I/P-Ground Isolation	1500VAC for 1 Minute
O/P-O/P Isolation	100VDC for 1 Minute
O/P-Ground Isolation	500VAC for 1 Minute

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

All specifications are typical at nominal input, full load, and 25DegC unless otherwise noted

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-20 to +50°C FL Derate Linearly to 50% Load at 70°C *
Cooling	200LFM >100W O/P Power
Relative Humidity	95% Non Condensing
Storage Temperature	-20 to +85°C *
Operating Altitude	3000m
Shock	30G, Half Sine, 6 Axis
Vibration	2G, 5-500Hz, 3 Axis
MTBF	Convection Cooled: 100,000Hrs Air Flow (200 CFM): 300,000 Hrs
EMC	Conducted EMI EN55022, EN60601-1-2 Class B 4dB Margin
	Radiated EMI EN55022, Class B, 4dB Margin
	Voltage Fluctuation EN61000-3-3
	ESD EN61000-4-2, 8KV Air, 6KV Contact
	Radiated Field EN61000-4-3, 3V/m, 80-2500MHz 1kHz/2Hz 80% AM Modulation Dwell Time is 3S for 2Hz Modulation Dwell Time is 1S for 1Hz Modulation
	EFT EN61000-4-4, 2kV on AC and DC 5kHz repetition 1kV on I/O
	Surge EN61000-4-5, 2kV CM, 1kV DM (min 5 surges at each phase angle)
	Conducted RF Immunity EN61000-4-6, 3Vrms, 0.15-80MHz 1kHz/2Hz 80% AM Modulation
	Magnetic Field Immunity EN61000-4-8, 50 and 60 Hz, 3A/m
	Dips & Interruptions EN61000-4-11 Dip to 40% for 5 cycles (100mS) Dip to 70% for 25 cycles (500mS) Dropout to 5% for 10mS Inerrupts>95% for 5S
Safety Standards	EN60601-1, IEC60601, UL/cUL 60601-1

Astrodyne products are not authorized or warranted for use as critical components in life support systems, equipment used in hazardous environments, nuclear controls systems, or other mission-critical applications.



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MECHANICAL DIMENSIONS

