ASTRODYNE

Enclosed 150 Watt Switching Power Supplies

US150 series



Unit measures 4.4"W x 7.96"L x 2"H

- Universal 85-265VAC Input
- High Efficiency
- Regulated Outputs
- 3000V Isolation
- Built in EMI Filter
- Low Cost Solution

Model Number	Output Voltage	Output Amps (max)
SINGLE OUTPUT		
US150-5	5 VDC	30
US150-12	12 VDC	12.5
US150-15	15 VDC	10
US150-24	24 VDC	6.5

300 Myles Standish Blvd., Taunton, MA 02780
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INPUT SPECIFICATIONS

Input Voltage Range	Universal 85-265 VAC
Frequency Range	47-63 Hz
Inrush Current, typ:	35A *

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Line/Load Regulation	
(10% to 100% Load)	+/- 0.3%, typ
Voltage Tolerance	5V: +/-5%, typ
	All Others: +/-1%
DC Voltage Adjust (typ)	+/-10%, typ
Temperature Coefficient	+/-0.03%/°C
Ripple/Noise	5V: 150mV, typ
	12V, 15V: 180mV, typ
	24V: 240mV, typ
Over Voltage Protection	Clamp, 115-135%, typ *
Short Circuit Protection	Continuous, self-recovering
Setup, Rise, Hold Up Time	100mS, 50mS, 20mS

GENERAL SPECIFICATIONS

Isolation	I/P-O/P: 3000VAC
	I/P-Ground: 1500VAC
Efficiency	82%, typ
Switching Frequency	25Khz, (fixed, typical)

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-10 to +60°C(See Derate)
Storage Temperature	-20 to +85°C *
Relative Humidity	20% to +90%, non-cond *
EMC	CISPR22 (EN55022)
	IEC1000-4-2,3,4,5
MTBF	860 kHrs
	Mil Std 217, 25°C

PHYSICAL SPECIFICATIONS

Size	4.4" x 7.96" x 2.0"
Construction	Enclosed, Perf Cover
Weight	1.76 lb, (800g)

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

* 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 warranteed nor implied.

Astrodyne products are not authorized or warranteed 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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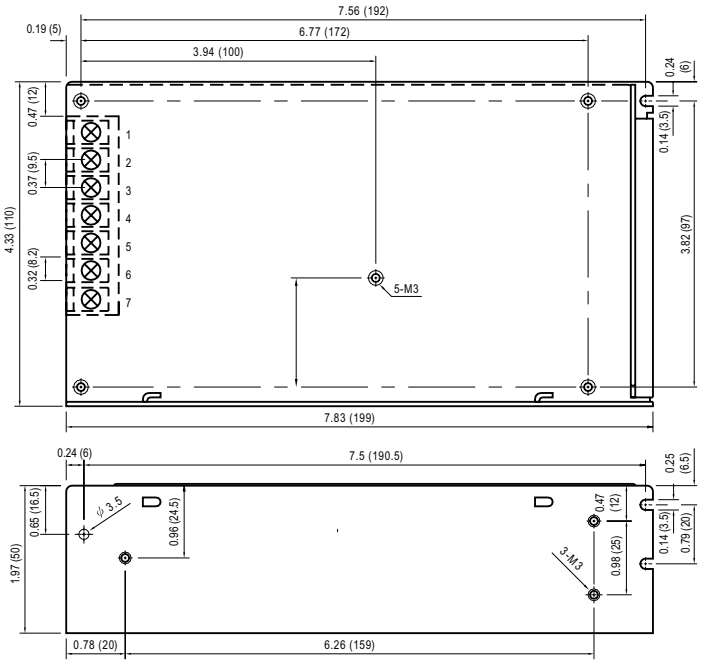
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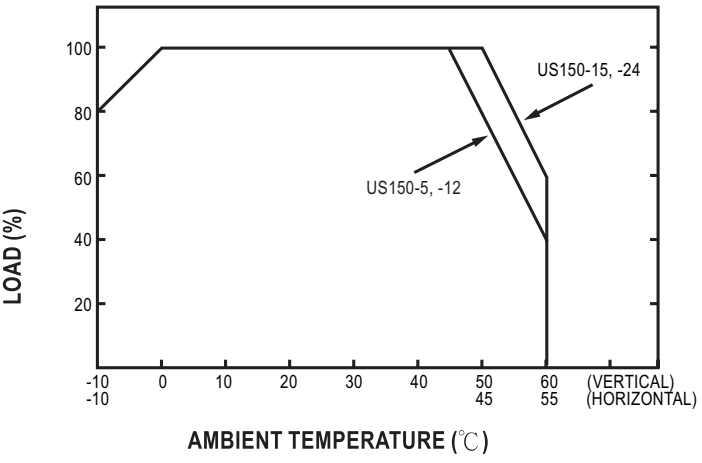
MECHANICAL DIMENSIONS



Dimensions are Inches (mm)

Pin #	Outputs
1	AC Line
2	AC Neutral
3	FG
4	- Output
5	- Output
6	+ Output
7	+ Output

OUTPUT DERATING CURVE



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