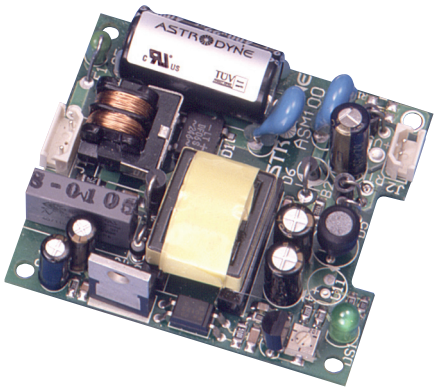
Astrodyne

10W Ultraminiature Medical Grade Switching Power Supplies

ASM10 series



2”W x 2.28”L x 0.66”H

- Universal 90-264VAC Input
- High Efficiency
- Regulated Outputs
- 4000V Isolation
- Single Outputs
- UL60601-1, EN60601-1 & IEC60601-1
- Single Output from 3.3 to 24 VDC

Model Number	Output Voltage	Output Amps (max)	(pk)
ASM-0100	3.3 VDC	2.5A	3.3A
ASM-0101	5 VDC	2A	2.6A
ASM-0102	12 VDC	0.85A	1.2A
ASM-0103	15VDC	0.67A	0.9A
ASM-0105	24VDC	0.42A	0.6A

ASTRODYNE USA: 1-800-823-8082
ASTRODYNE PACIFIC: 886-2-26983458

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INPUT SPECIFICATIONS

Input Voltage Range	90-264 VAC
Frequency Range	47-63 Hz
Inrush Current, typ:	20A @ 100VAC Input *
	40A @ 200VAC Input *

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Load Regulation	+/- 3%
	(20% to 100% Load)
Line Regulation	Singles +/- 0.1~1%, typ
Preset Accuracy	1%
DC Voltage Adjust (typ)	+/- 6% of FS (Primary)
Temperature Coefficient	+/-0.03%/°C
Ripple/Noise	100mV Pk-Pk, typ
Over Voltage Protection	Clamp, 130-150% *
Over Temp. Protection	Latching, Cool and Repower
Short Circuit Protection	Continuous, self-recovering
Hold Up Time	20 mS, typ

GENERAL SPECIFICATIONS

Isolation	I/P-O/P: 4000VAC
	I/P-Ground: 2500VAC
	O/P-Ground: 1000VAC
Efficiency	75%~78%, typ
Switching Frequency	100Khz, (fixed, typical)
Safety	UL60601-1, EN60601-1, IEC60601-1

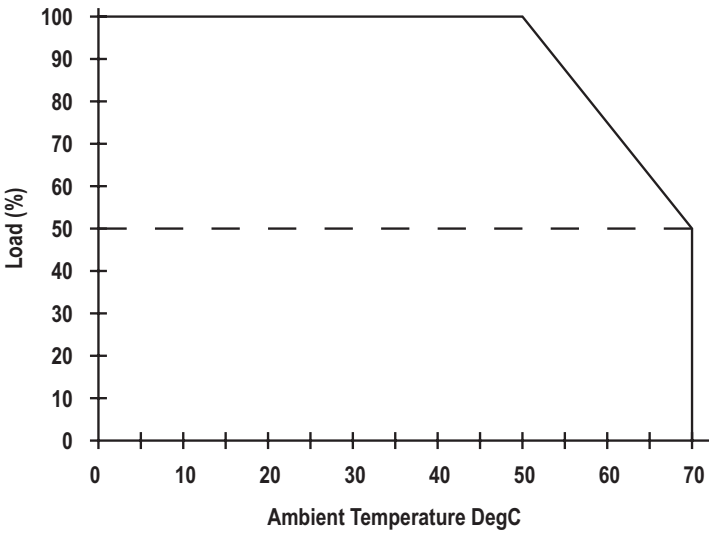
PHYSICAL SPECIFICATIONS

Size	2" x 2.28" x 0.66"
Construction	Open Frame
Weight	1.6oz (44g)
Connectors: Molex P/N:	50-37-5033 (Input)
	50-37-5023 (Output)

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	0 to +50°C(FL)
Storage Temperature	-25 to +71°C *
Relative Humidity	0 to + 95%, non-cond *
EMC	FCC/A, VDE 0871/A
MTBF	180,000 Hrs
	Mil Std 217, 25°C

OUTPUT DERATING CURVE



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.

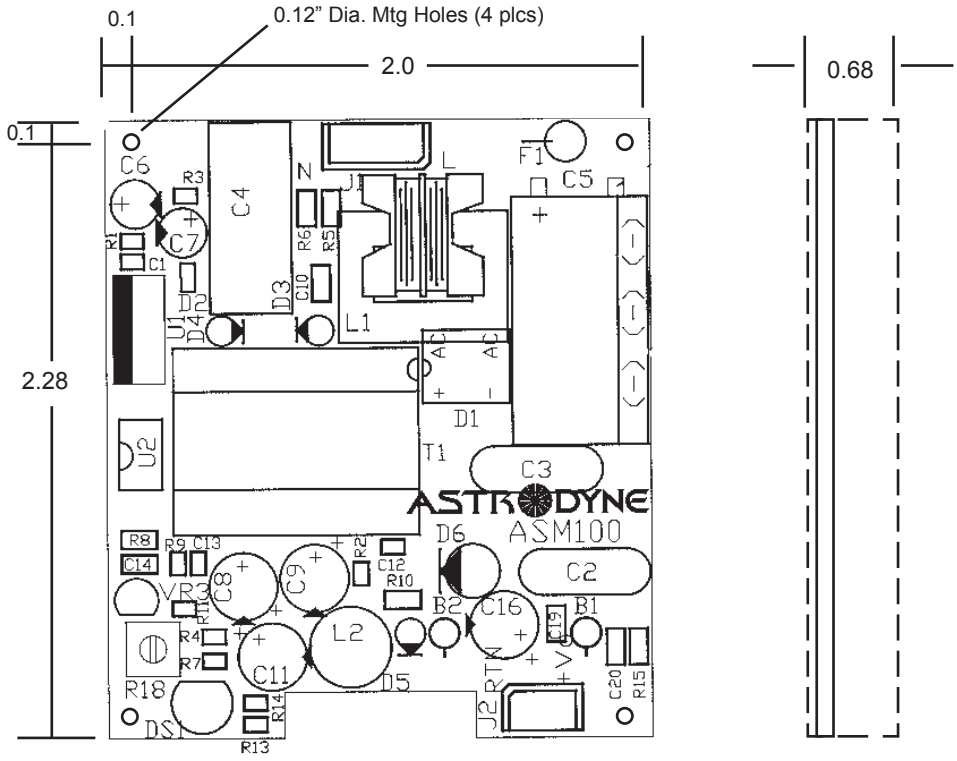
Astrodyne products are not authorized or warranteed for use as critical components in life support systems, equipment used in hazardous environments, nuclear controls systems, or other mission-critical applications.

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MECHANICAL DIMENSIONS

10 Watt



J1 (AC Input)

Pin 1	AC Neutral
Pin 3	AC Line

J2 (DC Output)

Pin 1	+Vout
Pin 3	Return

NOTE:
For Class II operation (no earth Gnd), insulating type hardware must be used at this mounting hole

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