

ASM15

15W ULTRAMINIATURE MEDICAL GRADE SWITCHING POWER SUPPLIES

Astrodyne TDI's ASM15 series of power supplies offers unrivaled efficiency and reliability in a compact and sleek design. With a versatile 90-264VAC input range, precise regulated outputs, and high 4000VAC isolation, these ultraminiature medical grade switching power supplies set a new standard in the industry. Whether you need a steady 3.3V for sensitive medical equipment or a robust 24V for industrial applications, the ASM15 series delivers consistent performance with unmatched precision. Elevate your power supply experience with the ASM15 series and witness the seamless blend of innovation and quality.

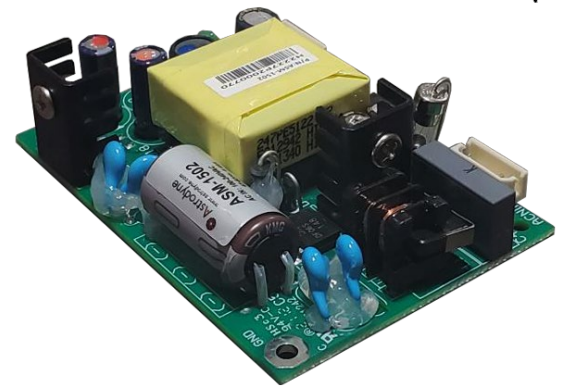
HOW TO ORDER

ASM-1500

VOLTAGE = 0 = 3.3VDC
1 = 5VDC
2 = 12VDC
3 = 15VDC
5 = 24VDC

OUTPUT POWER: 15W

FAMILY: ASM SERIES



FEATURES & BENEFITS

UNIVERSAL AC INPUT

90-264VAC Input

PROTECTIONS

Over Voltage Protection: Clamp, 130-150% *

Short Circuit Protection: Continuous, self-recovering *

SAFETY APPROVALS

UL/cUL: ANSI/AAMI ES60601-1 3rd ed., CSA C22.2 No. 60601-1 3rd ed.

UL-EU: EN60601-1 3rd ed.

CB: IEC60601-1 3rd ed.

CE: EN60601-1-2

EMI/EMC

EN55011 Class A

Single Output from 3.3 to 24 VDC

Efficiency 72%~78%, typ (70% for 3.3 Vout)

4000VAC Isolation

Ultraminiature Design 3"W x 2.18"L x 0.93"H

ASM15

15W ULTRAMINIATURE MEDICAL GRADE SWITCHING POWER SUPPLIES

PARAMETERS

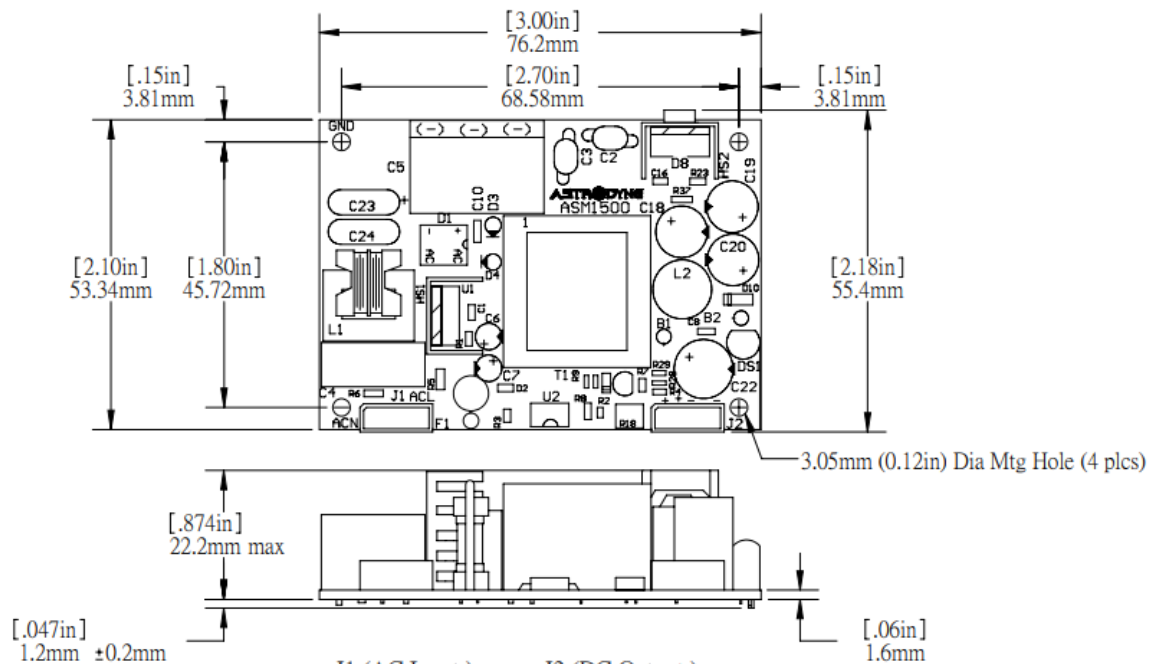
ASM10

Input Voltage Range	90-264 VAC; (100-240 Nominal)
Input Frequency	47-63 Hz
Inrush Current	20A @ 100VAC Input* 40A @ 200VAC Input*
Leakage Current	<0.3mA @ 26VAC, 50Hz
Voltage and Current	See Selection Chart
Load Regulation	+/-3% (20% to 100% Load)
Line Regulation	+/- 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% *
Short Circuit Protection	Continuous, self-recovering
Hold Up Time	20 mS, typ at Nom. Input Voltage
<p><i>All specifications are typical at nominal input, full load, and 25°C unless other- wise noted.</i></p> <p><i>* These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long-term reliability.</i></p> <p><i>Proper operation under conditions other than standard operating conditions is neither warranted nor implied.</i></p>	
Isolation	I/P-O/P: 4000VAC
Efficiency	72%~78%, typ (70% for 3.3 Vout)
Switching Frequency	100Khz, (fixed, typical)
Safety UL/cUL:	ANSI/AAMI ES60601-1 3 rd ed. CSA C22.2 No. 60601-1 3 rd ed.
UL-EU	EN60601-1 3 rd ed.
CB:	IEC60601-1 3 rd ed.
CE:	EN60601-1-2
Size	3" x 2.18" x 0.93"
Construction	Open Frame
Weight	2.5oz (70g)
Connectors: Molex P/N	50-37-5043 (Input) 50-37-5043 (Output) Contact: 08-70-1040
Oper. Temperature	0 to +50°C(FL)
Storage Temperature	-25 to + 71°C *
Relative Humidity	0 to 95%, non-cond *
EMC	EN55011 Class A
ETBF	180,000 Hrs Mil Std 217, 25°C

ASM15

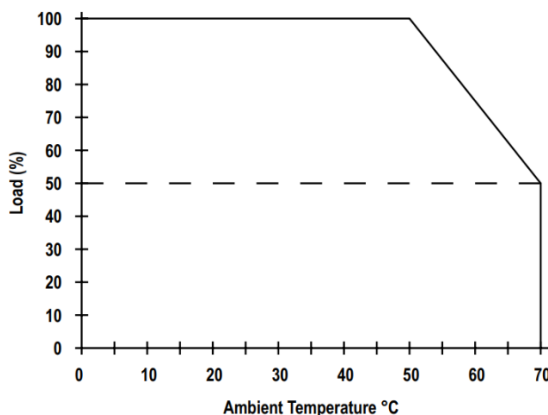
15W ULTRAMINIATURE MEDICAL GRADE SWITCHING POWER SUPPLIES

MECHANICAL DIMENSIONS



J1 (AC Input)		J2 (DC Output)	
Pin 1	AC Neutral	Pin 1	Com.Return
Pin 2	N/C	Pin 2	Com.Return
Pin 3	N/C	Pin 3	+Vout
Pin 4	AC Line	Pin 4	+Vout

Input connector : Molex 22-43-8040 or equivalent
Output connector : Molex 22-43-8040 or equivalent
Length & Width tolerance : ± 0.1mm (0.004in)



MODEL NUMBER	OUTPUT VOLTAGE	OUTPUT AMP (MAX)	(PK)	EFFICIENCY (TYP)
ASM-1500	3.3 VDC	3.5A	3.8A	70%
ASM-1501	5 VDC	3A	3.6A	72%~78%
ASM-1502	12VDC	1.25A	1.5A	72%~78%
ASM-1503	15VDC	1A	1.25A	72%~78%
ASM-1505	24VDC	0.63A	0.75A	72%~78%