

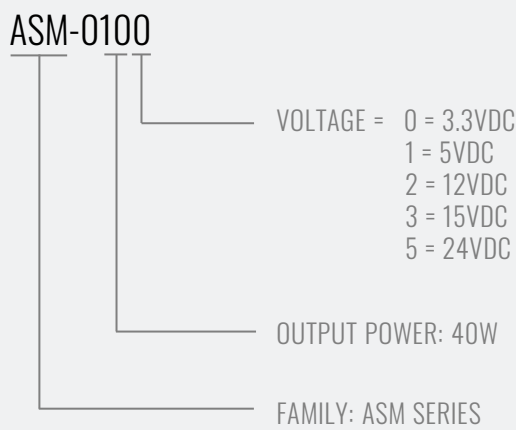
# ASM10

## 10W ULTRAMINIATURE MEDICAL GRADE SWITCHING POWER SUPPLIES

The Astrodyne TDI ASM10 series sets a new standard in power supply technology, providing a reliable and efficient solution for medical applications. Its ultraminiature design ensures space-saving benefits without compromising on performance. With a wide input voltage range of 90-264VAC, the ASM10 series guarantees consistent and regulated outputs, delivering power with precision. The 4000VAC isolation adds an extra layer of safety, meeting the stringent requirements of medical environments. Whether you need a single output of 3.3V or 24VDC, the ASM10 series offers versatility to meet your specific needs.



### HOW TO ORDER



### 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 (62% for 3.3 Vout)
- 4000VAC Isolation
- Ultraminiature Design 2" x 2.28" x 0.833"

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### PARAMETERS

### ASM10

Input Voltage Range	90-264 VAC; (100-240 Nominal)
Input Frequency	47-62 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><b><i>All specifications are typical at nominal input, full load, and 25°C unless other- wise noted.</i></b></p> <p><b><i>* These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long-term reliability.</i></b></p> <p><b><i>Proper operation under conditions other than standard operating conditions is neither warranted nor implied.</i></b></p>	
Isolation	I/P-O/P: 4000VAC
Efficiency	72%~78%, typ (62% for 3.3 Vout)
Switching Frequency	100Khz, (fixed, typical)
Safety UL/cUL:	ANSI/AAMI ES60601-1 3 <sup>rd</sup> ed. CSA C22.2 No. 60601-1 3 <sup>rd</sup> ed.
UL-EU	EN60601-1 3 <sup>rd</sup> ed.
CB:	IEC60601-1 3 <sup>rd</sup> ed.
CE:	EN60601-1-2
Size	2" X 2.28" X 0.833"
Construction	Open Frame
Weight	1.6oz (44g)
Connectors: Molex P/N	50-37-5033 (Input) 50-37-5023 (Output)
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



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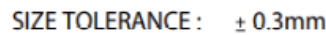
**J1 (AC Input)**

Pin 1	AC Neutral
Pin 3	AC Line

**J2 (DC Output)**

Pin 1	+Vout
Pin 2	Return

**SIZE TOLERANCE :  $\pm 0.3\text{mm}$**



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