

Isolated and Regulated 7.5 WATT Modular DC/DC Converters

ASD08 series



Unit measures 0.8"W x 1.25"L x 0.5"H

- 24-Pin DIP Package
- Wide 2:1 Input Range
- 1500V Isolation
- Short Circuit Protection
- High Efficiency
- Input PI Filter

Model Number	Output Voltage	Output mAmps	Input Range	Efficiency
SINGLE OUTPUT				
ASD08-12S3	3.3 VDC	1500	9-18 VDC	74%
ASD08-24S3		1500	18-36 VDC	76%
ASD08-48S3		1500	36-72 VDC	76%
ASD08-12S5	5 VDC	1500	9-18 VDC	78%
ASD08-24S5		1500	18-36 VDC	79%
ASD08-48S5		1500	36-72 VDC	80%
ASD08-12S12	12 VDC	625	9-18 VDC	82%
ASD08-24S12		625	18-36 VDC	82%
ASD08-48S12		625	36-72 VDC	82%
ASD08-12S15	15 VDC	500	9-18 VDC	82%
ASD08-24S15		500	18-36 VDC	82%
ASD08-48S15		500	36-72 VDC	82%
DUAL OUTPUT				
ASD08-12D5	+/-5 VDC	+/-750	9-18 VDC	79%
ASD08-24D5		+/-750	18-36 VDC	81%
ASD08-48D5		+/-750	36-72 VDC	81%
ASD08-12D12	+/-12 VDC	+/-310	9-18 VDC	83%
ASD08-24D12		+/-310	18-36 VDC	83%
ASD08-48D12		+/-310	36-72 VDC	83%
ASD08-12D15	+/-15 VDC	+/-250	9-18 VDC	83%
ASD08-24D15		+/-250	18-36 VDC	83%
ASD08-48D15		+/-250	36-72 VDC	83%

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INPUT SPECIFICATIONS

Input Voltage Ranges:	12 VDC Nominal	9-18 VDC
	24 VDC Nominal	18-36 VDC
	48 VDC Nominal	36-72 VDC
Input Filter	PI Type	

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart	
Load Regulation	Single (10% to FL)	+/-0.5%
	Dual (25% to FL)	+/-1%
Line Regulation (HL-LL)	+/-0.2%	
Temperature Coefficient	+/-0.05%/°C	
Ripple/Noise	100mVp-p max.	
Voltage Accuracy	+/-2%, max.	
Voltage Balance (Dual)	+/-1%	
Short Circuit Protection	Continuous	
Efficiency	See Selection Chart	

GENERAL SPECIFICATIONS

Input-Output Isolation	1500VDC
Isolation Resistance	10-9nth Ohm min.
Switching Frequency	300Khz

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-25 to +71°C	
Case Temperature	100°C max.	
Storage Temperature	-40 to +100°C *	
Cooling	Free Air Convection	
MTBF	Single O/P	1,109,000 Hrs.
	Dual O/P	1,090,000 Hrs.
	MIL-HDBK-217F	
	Ground Benign, 25°C	

PHYSICAL SPECIFICATIONS

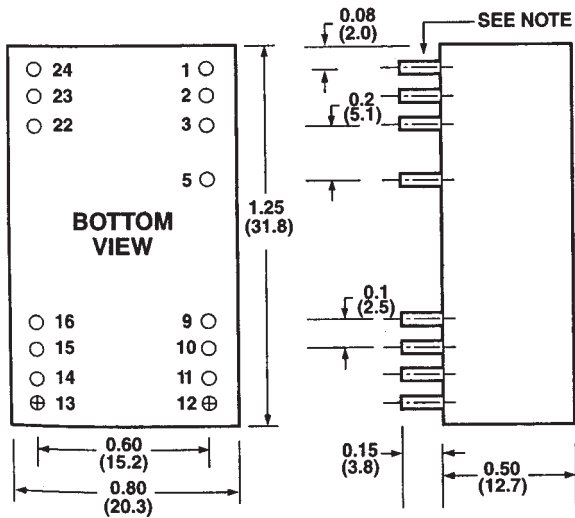
Case Material	Black coated Copper
	w. Non-conductive base
Construction	Fully Encapsulated
Weight	0.5 oz, (13g)
Dimensions	0.80" x 1.25" x 0.4"

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 warranted nor implied.

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.

MECHANICAL DIMENSIONS



NOTE: Pin Size is 0.02" Inch (0.5mm) DIA
 All Dimensions In Inches (mm)
 Tolerance .xx = +/-0.02, .xxx = +/- 0.010

Pin #	Single Outputs	Dual Outputs
1	No Pin	No Pin
2	- Input	- Input
3	- Input	- Input
5	No Pin	No Pin
9	NC	Common
10	NC	NC
11	NC	- Output
12	No Pin	No Pin
13	No Pin	No Pin
14	+ Output	+ Output
15	NC	NC
16	- Output	Common
22	+ Input	+ Input
23	+ Input	+ Input
24	No Pin	No Pin