

ASTRODYNE *MicroBrick* Isolated and Regulated 7 WATT Open Frame DC/DC Converters

- Wide 4 : 1 Input Range
- High Efficiency
- Regulated Outputs
- 1500V Isolation
- Integral Finned Heatsink
- EN60950 & UL1950 Approved

ASD07H Series



Unit measures 1"W x 2"L x 0.375"H

MODEL SELECTIONS

Output Voltage	Output Amps	Input Range	Model Number	Price 1	Price 25
SINGLE OUTPUT					
3.3 VDC	1.9	9-36VDC	ASD07H-12S3	\$42	\$41
	1.9	18-75VDC	ASD07H-48S3	\$42	\$41
5 VDC	1.5	9-36VDC	ASD07H-12S5	\$42	\$41
	1.5	18-75VDC	ASD07H-48S5	\$42	\$41
9 VDC	0.83	9-36VDC	ASD07H-12S9	\$42	\$41
	0.83	18-75VDC	ASD07H-48S9	\$42	\$41
12 VDC	0.62	9-36VDC	ASD07H-12S12	\$42	\$41
	0.62	18-75VDC	ASD07H-48S12	\$42	\$41
15 VDC	0.5	9-36VDC	ASD07H-12S15	\$42	\$41
	0.5	18-75VDC	ASD07H-48S15	\$42	\$41
DUAL OUTPUT					
+/-5 VDC	+/-0.75	9-36VDC	ASD07H-12D5	\$47	\$45
	+/-0.75	18-75VDC	ASD07H-48D5	\$47	\$45
+/-12 VDC	+/-0.31	9-36VDC	ASD07H-12D12	\$47	\$45
	+/-0.31	18-75VDC	ASD07H-48D12	\$47	\$45
+/-15 VDC	+/-0.25	9-36VDC	ASD07H-12D15	\$47	\$45
	+/-0.25	18-75VDC	ASD07H-48D15	\$47	\$45

**Contact
Factory
for
High Volume
Pricing**

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

INPUT SPECIFICATIONS

Input Voltage, Nominal	12VDC	48VDC
Input Voltage Ranges	9-36	18-75 VDC
Input Surge Voltage	50V (12V Models), *	100V (48V Models), *
	100V (48V Models), *	
	10 mS duration, min.	

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Preset Accuracy	Singles: +/- 1% max. DUALS: +/- 2% max.
Cross Regulation (Duals)	5-8% typ.
Load Regulation	singles: +/- 0.5%
20% - FL	duals: +/-1%, +/-3% (5V mod)
Line Regulation	singles: +/- 0.5%
	duals: +/- 1%
Temperature Coefficient	+/-0.03%/DegC
Ripple/Noise (Pk-Pk, typ)	
Single 3.3V	100mV
Single 5, 9, 12, 15V	50mV
Dual 5V	150mV (12Vin) 100mV (48Vin)
Dual 12, 15V	50mV
Overvoltage Protection	Clamp, 130-150% *
Short Circuit Protection	Continuous, self-recovering

GENERAL SPECIFICATIONS

On/Off Control	(Ref to - Input pin) Logic "1"/Open=ON Logic "0"/GND=OFF
Shutdown Idle Current	15mA
Input-Out Isolation	1500VDC (48V) 500 VDC (12V)
In/Out Capacitance	1000 pF
Efficiency	82%, typ
Switching Frequency	450Khz

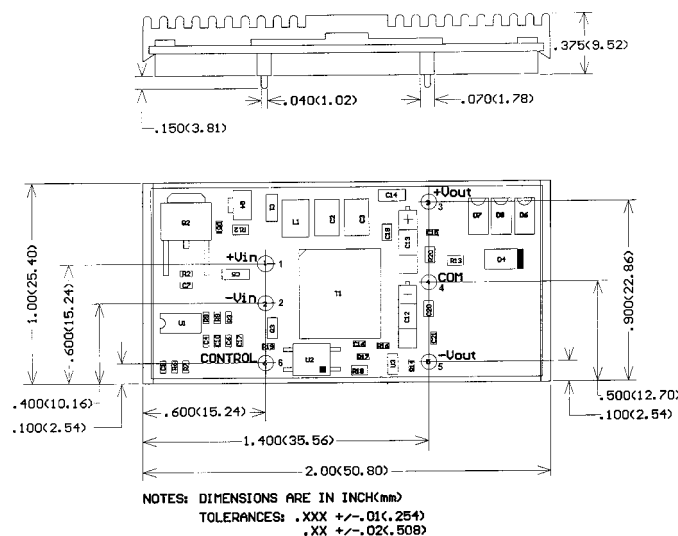
ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-25 to +71 °C(FL)
Relative Humidity	0 to 95%, non-cond
Storage Temperature	-40 to +125 °C *
Maximum Heatsink Temp	110 °C *
Input Fusing	12V: 4A, 48V: 2A
MTBF	1,000,000 Hrs Mil Std 217, 25C To MIL-STD 810C
Shock/Vibration	
Safety	
EN60950	TUV File # B 98 04 22749 010
UL 1950	UL File # E167432

PHYSICAL SPECIFICATIONS

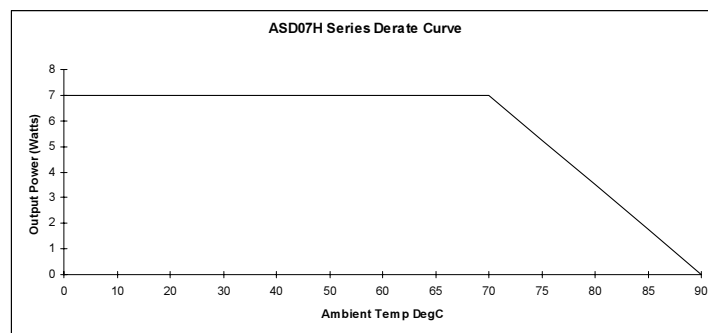
Heatsink Material	Aluminum
Construction	Open Frame
Weight	0.57 oz, (16g)

MECHANICAL DIMENSIONS



Pin #	Single Outputs	Dual Outputs
1	+ Input	+ Input
2	- Input	- Input
3	+ Output	+ Output
4	N/A	Common
5	- Output	- Output
6	Control	Control

OUTPUT DERATING CURVE



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.

* 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.

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