ASTRODYNE

Telecom Isolated and Regulated 100 Watt Modular DC/DC Converters

- Wide 2 : 1 Input Range
- High Efficiency
- Regulated Outputs
- 1500V Isolation
- Full EMI Shielding
- Standard Half Brick Footprint

AVH 100 Series

Unit measures 2.28”W x 2.4”L x 0.5”H

MODEL SELECTIONS

Output Voltage	Output Amps	Input Range	Model Number	Price 1	Price 50
SINGLE OUTPUT					
3.3VDC	20	36-75VDC	AVH100-48S03	$106	$95
5 VDC	20	36-75VDC	AVH100-48S05	$106	$95
12VDC	8.3	36-75VDC	AVH100-48S12	$106	$95
15VDC	6.7	36-75VDC	AVH100-48S15	$106	$95
24VDC	4.2	36-75VDC	AVH100-48S24	$106	$95
28VDC	3.6	36-75VDC	AVH100-48S28	$106	$95

Contact Factory for High Volume Pricing

300 Myles Standish Blvd., Taunton, MA 02780
Ph: 1-800-823-8082 Fax: 508-823-8181

Telecom Isolated and Regulated 100 Watt Modular DC/DC Converters

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

INPUT SPECIFICATIONS

Input Voltage, Nominal	48VDC
Input Voltage Ranges	36-75VDC
Input Surge Voltage	100V (48V Models), * <100 mS duration

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Load Regulation	+/- 0.5%, typ
Line Regulation	+/- 0.2%, typ
Trim Range	+/- 10% typ
Temperature Coefficient	+/-0.02%/DegC
Ripple/Noise	150 mV Pk-Pk, typ
Overcurrent Protection	Clamp, 110-150% *
Voltage Stability	+/- 1%, max
Short Circuit Protection	Continuous, self-recovering

GENERAL SPECIFICATIONS

On/Off Control	Logic "1"=OFF Logic "0"=ON CNT must be connected
Shutdown Idle Current	60mA
Input-Out Isolation	1500 VDC
In/Out Capacitance	1000 pF
Efficiency	82%, typ
Switching Frequency	330Khz

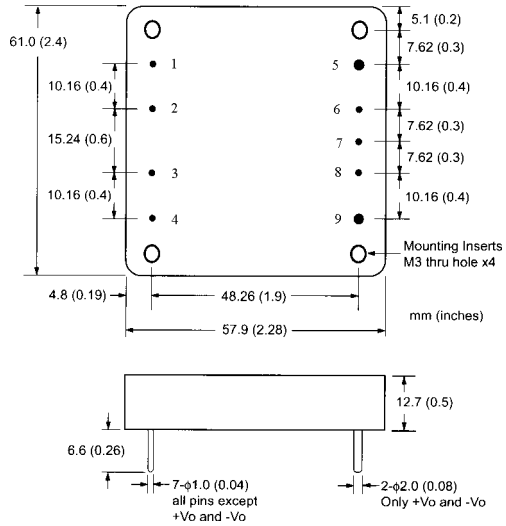
ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-40 to +100 Deg C
Storage Temperature	-40 to +110 Deg C *
Input Fusing	15A
MTBF	2000 KHrs Bellcore TR332, 25° C
Shock/Vibration	To TR-EOP-000063
Safety Certification	CSA C22.2 no. 234 & no. 950 UL 1950 TUV EN 60950 CE - low voltage directive 73/23/EEC

PHYSICAL SPECIFICATIONS

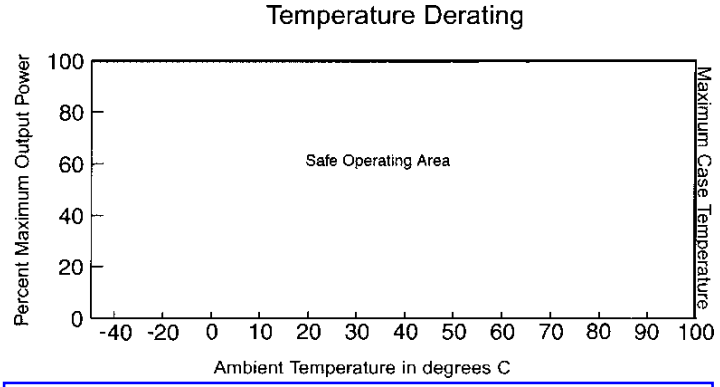
Case Material	Metal Shield
Construction	Fully Encapsulated
Weight	3.93 oz, (110g)

MECHANICAL DIMENSIONS



Pin #	Output
1	- Input
2	Case
3	Control
4	+ Input
5	- Output
6	- Sense
7	Trim
8	+ Sense
9	+ Output

OUTPUT DERATING CURVE



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.

* 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.

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