

- Wide 2 : 1 Input Range
- High Efficiency
- Regulated Outputs
- 500V Isolation
- Full EMI Shielding

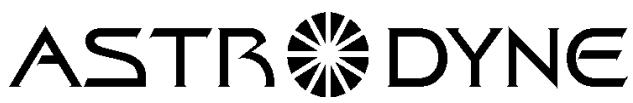
AV20 Series



Unit measures 1.6"W x 2)L x 0.38"H

MODEL SELECTIONS

Output Voltage	Output Amps	Input Range	Model Number	
SINGLE OUTPUT				
3.3 VDC	4	18-36VDC	AV20-24S03	
	4	36-75VDC	AV20-48S03	
5 VDC	4	18-36VDC	AV20-24S05	
	4	36-75VDC	AV20-48S05	
12 VDC	1.67	18-36VDC	AV20-24S12	
	1.67	36-75VDC	AV20-48S12	
15 VDC	1.33	18-36VDC	AV20-24S15	Contact Factory for High Volume Pricing
	1.33	36-75VDC	AV20-48S15	
DUAL OUTPUT				
+/-5 VDC	+/-2	18-36VDC	AV20-24D05	
	+/-2	36-75VDC	AV20-48D05	
+/-12 VDC	+/-0.84	18-36VDC	AV20-24D12	
	+/-0.84	36-75VDC	AV20-48D12	
+/-15 VDC	+/-0.67	18-36VDC	AV20-24D15	
	+/-0.67	36-75VDC	AV20-48D15	



Telecom Isolated and Regulated 20 Watt Modular DC/DC Converters

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

INPUT SPECIFICATIONS

Input Voltage, Nominal	24VDC, 48VDC
Input Voltage Ranges	18-36, 36-75VDC
Input Surge Voltage	50V (24V Models), * 100V (48V Models), * 100 mS duration

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Load Regulation	Singles: +/- 0.5% , Duals: +/- 0.5% (10% to 100% Load)
Line Regulation	+/- 0.2%, typ
Temperature Coefficient	+/-0.02%/DegC
Ripple/Noise(Single/Dual)	80 mV Pk-Pk, typ
Overshoot Protection	Clamp, 110-160% *
Output Voltage Tolerance	+/-1%, max
Short Circuit Protection	Continuous, self-recovering

GENERAL SPECIFICATIONS

On/Off Control	Logic 0=off, Logic 1=on
Shutdown Idle Current	24V 48V 25mA 15mA
Input-Out Isolation	500VDC
In/Out Capacitance	5nF
Efficiency	80%, typ
Switching Frequency	280Khz

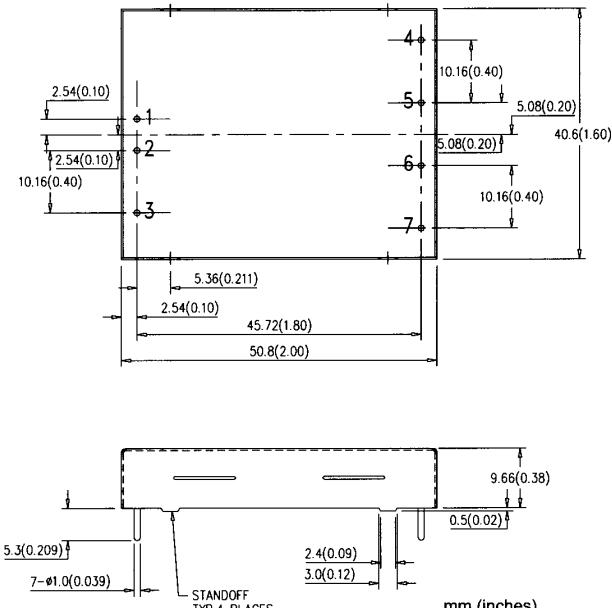
ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-25 to +95 DegC
Storage Temperature	-40 to +105 DegC *
Maximum Case Temp	100 DegC *
Input Fusing	24V: 4A, 48V: 2A
MTBF	2420 kHrs
Shock/Vibration	Bellcore TR332, 25°C To TR-EOP-000063
Weight	1.71 oz, (48g)
Safety Certification	CSA C22.2 no. 234 & no. 950 UL 1950 TUV EN 60950 CE - low voltage directive 73/23/EEC

PHYSICAL SPECIFICATIONS

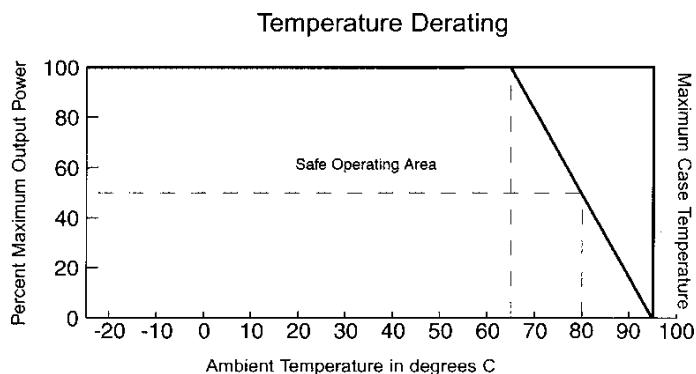
Case Material	Metal Shield
Construction	Fully Encapsulated

MECHANICAL DIMENSIONS



Pin #	Single Outputs	Dual Outputs
1	+ Input	+ Input
2	- Input	- Input
3	Control	Control
4	No Pin	+ Output
5	+ Output	Common
6	- Output	- Output
7	Trim	Trim

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.