

AM - SERIES

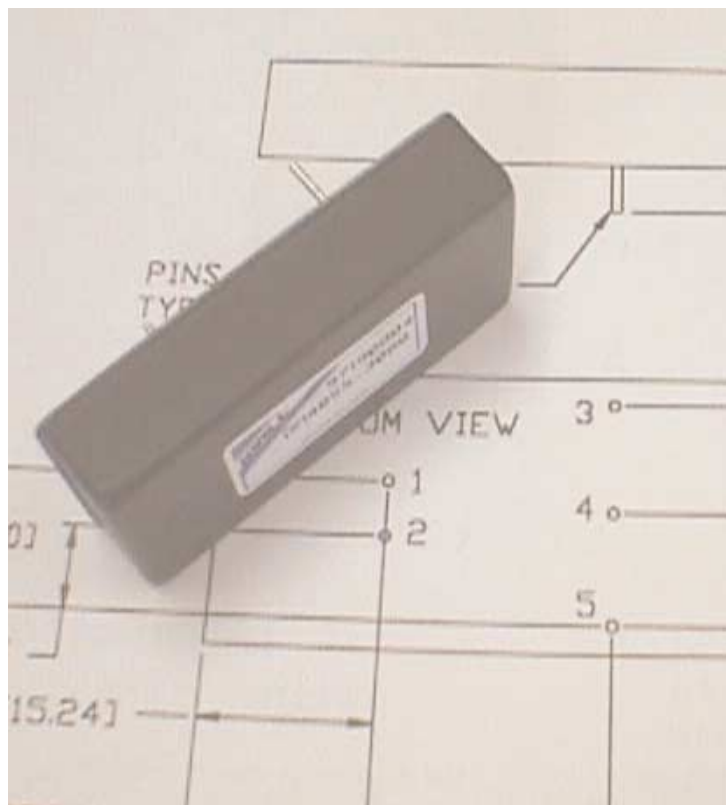
Single Output DC/DC Converter

2" x 1" x 0.4"

up to 20 Watts Output

PRODUCT FEATURES

- Single DC/DC Converter, up to 20Watts
- Ideal for Telecom and Networking Applications
- 2:1 Input Range, High Efficiency
- Industry Compatible Pin Out, 2" x 1" Form Factor
- Six Side Shielded, Low Profile 0.4" Height
- No external Input or Output Filtering required
- Regulated Output
- Over Current Protection
- >1500VDC I/O Isolation, UL, CUL, TUV, CE Approvals pending



OVERVIEW

The AM Series of high efficiency DC/DC converters are available as single output versions, 3.3VDC up to 15VDC, with 20 Watts of output power. The product is ideal for Telecom and Networking applications. The converter is designed for a 2:1 input range, either nominal 24 Volt (18VDC -36VDC) or nominal 48VDC (36VDC-75VDC). The converter is PCB mountable, the package has a formfactor of 2"x1"x 0.4". The standard specifications include the Pi-input filter, excellent load regulation and short circuit protection. The isolation voltage meets the >1500VDC telecom requirements.

SPECIFICATIONS

Nominal Input:	48VDC (36-75VDC) 24VDC (18-36VDC)
Output Voltage:	see Table 1
Output Power:	up to 20W
Efficiency:	see Table 1
Isolation Voltage:	>1500VDC
Operating Temperature:	-25C to +71C (no derating)
Max. Case Temp.	100C
Dimensions:	2" x 1" x 0.4"

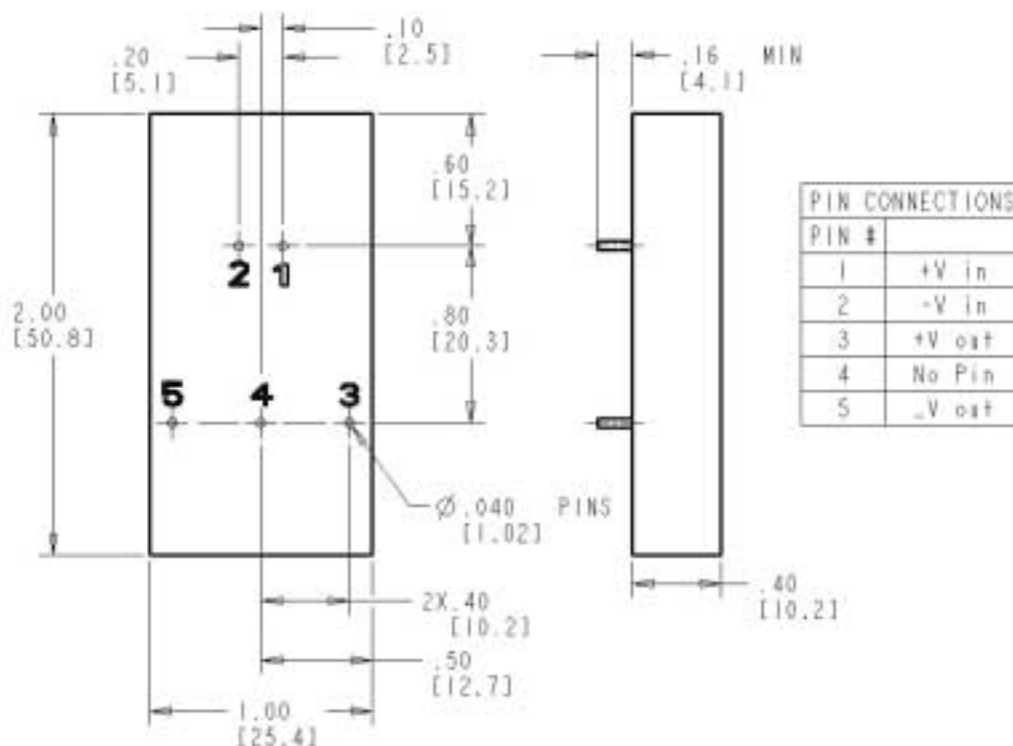
TABLE 1

Model Number	Input Voltage VDC	Output Volts /Amps VDC	Effic. %
AM24S-3.3-13	18-36	3.3 // 4	87
AM24S-5-20	18-36	5 // 4	90
AM24S-12-20	18-36	12 // 1.70	91
AM48S-2.5-10	36-75	2.5 // 4	84
AM48S-3.3-13	36-75	3.3 // 4	87
AM48S-5-20	36-75	5 // 4	90
AM48S-12-20	36-75	12 // 1.70	91
AM48S15-20	36-75	15 // 1.40	91

For further information or Application Support:

www.wallindustries.com

or call 1-888-597-WALL



All case and Pin-to-Case dimensions are for reference only, unless otherwise noted. All DC/DC converters should be externally fused at the front end for protection. Significant capacitive load at the output of the converter may inhibit the start-up and operation.

Specification	Method	Min.	Typ.	Max.	Units
INPUT VOLTAGE:	48V version	36	48	75	Volts
	24V version	18	24	36	Volts
REMOTE ON/OFF	n.a.				
INPUT FILTER	Pi-Filter				
OUTPUT VOLTAGE		see table			Volts
OUTPUT VOLTAGE	Set Point		+/- 1%	% of Vout	
OUTPUT CURRENT			see table		A
OVERCURRENT PROTECTION	Limiting			% of Iout	
OUTPUT RIPPLE	20MHz BW			<75mVpp	mV peak/peak
SHORT CIRCUIT PROTECTION	continuous				
LINE REGULATION	HL / LL	+/- 0.2%			
LOAD REGULATION	10-100% load		+/- 0.5%		
TRANSIENT RESPONSE	within +/-1% Vout			<500u sec	
OUTPUT TRIM	n.a.	n.a.		% of Vout	
EFFICIENCY		see table			
ISOLATION VOLTAGE	In/Out/	>100MOhms	Res.	>1500VDC	VDC / 10sec
SWITCHING FREQUENCY			300kHz typ.		
OPERATING TEMPERATURE		-25	+71		degree C
STORAGE TEMPERATURE		-55	+105		degree C
WEIGHT		~ 1 oz			
DIMENSIONS	case w/o pin		2"x 1"x 0.4"		inches
CASE MATERIAL			Ni coated Copper		