

3AE

3 WATT INPUT DC-DC CONVERTERS

Features:

- 3W Isolated Output
- 24-Pin DIP Package
- Efficiency to 61%
- Regulated Outputs
- Low Ripple and Noise
- Pi Input Filter
- Continuous Short Circuit Protection

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF.	CASE
				NO LOAD	FULL LOAD		
3AE01M	5 VDC	5 VDC	600 mA	110 mA	984 mA	61	A
3AE02M		12 VDC	250 mA				
3AE03M		15 VDC	200 mA				
3AE11M	12 VDC	5 VDC	600 mA	40mA	410 mA	61	A
3AE12M		12 VDC	250 mA				
3AE13M		15 VDC	200 mA				
3AE21M	24 VDC	5 VDC	600 mA	20 mA	205 mA	61	A
3AE22M		12 VDC	250 mA				
3AE23M		15 VDC	200 mA				
3AE31M	28 VDC	5 VDC	600 mA	20 mA	176 mA	61	A
3AE32M		12 VDC	250 mA				
3AE33M		15 VDC	200 mA				
3AE41M	48VDC	5 VDC	600 mA	20 mA	102 mA	61	A
3AE42M		12 VDC	250 mA				
3AE43M		15 VDC	200 mA				



D1 International, Inc.

95 E. Main St. Huntington, Ny 11743 USA • 631-673-6866 • Fax: 631-673-6893
www.d1international.com • e-mail: d1intl@aol.com



Specifications

3AE SERIES

INPUT SPECIFICATIONS:

Input Voltage Range.....±10%
 Input Filte.....PI Type

OUTPUT SPECIFICATIONS:

Voltage Accuracy.....± 3.0% max.
 Temperature Coefficient.....± 0.02% / °C
 Ripple and Noise, 20MHz BW.....50mV p-p max.
 Short Circuit Protection.....Continuous
 Line Regulation¹,± 0.3%
 Load Regulation²,± 0.5%

GENERAL SPECIFICATIONS:

Efficiency.....See Table
 Isolation Capacitance.....150pF Typ.
 Isolation Resistance10⁹ ohms
 Switching Frequency.....80kHz Typ.
 Operating Temperature Range.....-25°C to +71°C
 Case Temperature (Plastic case).....+100°C max.
 Cooling.....Free-Air Convection
 Storage Temperature Range.....-40°C to +100°C
 Dimensions.....1.25 x 0.8 x 0.4 inches
 (31.8 x 20.3 x 10.2 mm)

ISOLATION VOLTAGE:

500 VDC min.....Standard Models

CASE MATERIAL:

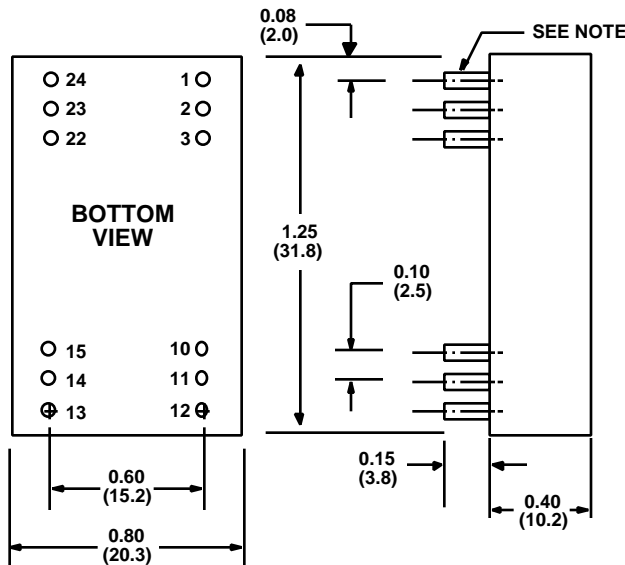
Standard Models.....Black Coated Copper with
 Non-Conductive Black Plastic

NOTE:

1. Measured From High Line to Low Line 2. Measured From Full Load to 10% Load

CASE A

NOTE: Pin Size is 0.02" Inch (0.5m/m) DIA or .020 x .014 Inch
 All Dimensions In Inches (mm)



PIN CONNECTION	
500 VDC	
Pin	Function
1 24	+V Input
2 23	NC
3 22	NC
10	-V Output
11	+V Output
12	-V Input
13	-V Input
14	+V Output
15	-V Output

*NC-NO CONNECTION WITH PIN

All Specifications Typical At Nominal Line, Full Load and 25°C Unless Otherwise Noted.