

BTCPower™ Broadband TelCom Power, Inc.

Redefining "Current" Limits In Power Conversion

3AW Series

3W DC-DC Converters

Features

- 3W Isolated Output
- 24-Pin DIP Package
- Efficiency to 80%
- 4:1 Input Range
- Regulated Outputs
- Pi Input Filter
- Continuous Short Circuit Protection

Model Number	Input Voltage	Output Voltage	Output Current	Input Current		% Efficiency	Case
				No Load	Full Load		
3AW-01	9-36VDC	5 VDC	600 mA	15 mA	174 mA	72	A
3AW-02		12 VDC	250 mA	15 mA	165 mA	76	
3AW-03		15 VDC	200 mA	15 mA	165 mA	76	
3AW-04		±5 VDC	±300 mA	25 mA	179 mA	70	
3AW-05		±12 VDC	±125 mA	25 mA	174 mA	72	
3AW-06		±15 VDC	±100 mA	25 mA	174 mA	72	
3AW-07		3.3 VDC	600 mA	15 mA	117 mA	70	
3AW-11	18-72VDC	5 VDC	600 mA	7.5 mA	87 mA	72	A
3AW-12		12 VDC	250 mA	7.5 mA	78 mA	80	
3AW-13		15 VDC	200 mA	7.5 mA	78 mA	80	
3AW-14		±5 VDC	±300 mA	12 mA	88 mA	71	
3AW-15		±12 VDC	±125 mA	12 mA	87 mA	72	
3AW-16		±15 VDC	±100 mA	12 mA	87 mA	72	
3AW-17		3.3 VDC	600mA	7.5 mA	58 mA	70	

Note: Nominal Input Voltage 24 or 48VDC

Specifications

Input Specifications:

Range.....24V.....9-36V
 48V.....18-72V
 Input Filter.....Pi Type

Output Specifications:

Voltage Accuracy.....+/- 2.0 % max.
 Voltage Balance (Dual).....+/- 1.0 % max.
 Ripple & Noise, 20 MHz BW
 Single & ±5V.....100 mV p-p max.
 Dual.....1% p-p max.
 Temperature Coefficient..... +/- 0.05 % /°C max.
 Short Circuit Protection.....Continuous
 Line Regulation ¹ Single / Dual Output.....+/- 0.5 % max.
 Load Regulation ² Single+/- 0.5 % max.
 Dual³.....+/- 1.0 % max.

General Specifications :

Efficiency.....see table
 Isolation Resistance.....100Mohm
 Switching Frequency.....100 KHz, min.
 Operating Temperature Range.....-25° C ~ +71° C
 Case Temperature.....100° C max.
 Cooling.....Free air convection
 Storage Temperature Range.....-40° C ~ +100° C
 Isolation Voltage.....500VDC min.
 Suffix "H" Models⁴.....3K VDC min.
 Dimensions.....1.25" x 0.8" x 0.4" (31.8 x 20.3 x 10.2 mm)
 Case Material.....Non-Conductive Black Plastic
 Suffix "M" Models(Material)⁵.....Black Coated Copper with
 Non-conducted base

Outline Information and Pin-out

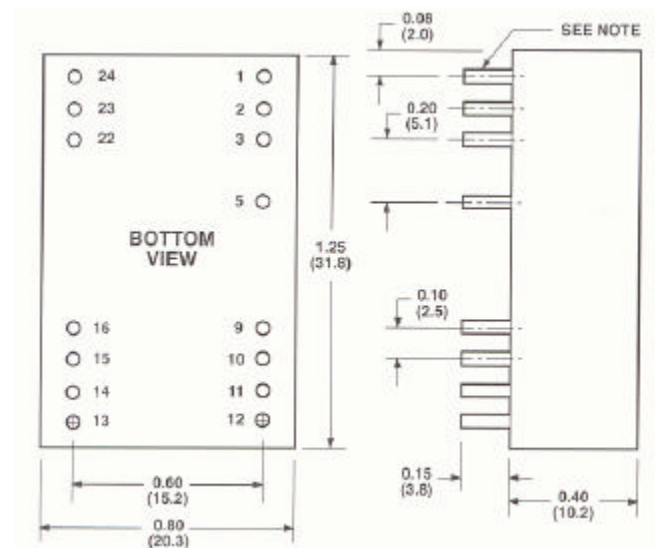
PIN CONNECTION					
500VDC			1.5K & 3K VDC		
PIN	Single Output	Dual Output	PIN	Single Output	Dual Output
1	+V input	+V input	1	NP	NP
2	NC	-V output	2	-V input	-V input
3	NC	Common	3	-V input	-V input
5	NP	NP	5	NP	
9	NP	NP	9	NC	Common
10	-V output	Common	10	NC	NC
11	+V output	+V output	11	NC	-V output
12	-V input	-V input	12	NP	NP
13	-V input	-V input	13	NP	NP
14	+V output	+V output	14	+V output	+V output
15	-V output	Common	15	NC	NC
16	NP	NP	16	-V output	Common
22	NC	Common	22	+V input	+V input
23	NC	-V output	23	+V input	+V input
24	+V input	+V input	24	NP	NP

* NP---No Pin

* NC---No connection with pin

All dimensions are in inches [mm]

All pins sizes are dia. 0.02" [0.508mm] and 0.14"[0.35mm] length



Note:

1. Measured from high line to low line
2. Measured from full load to 10% load
3. Measured from full load to 1/4 load
4. Non-conductive black plastic only
5. Suffix "HM" 1.5KVDC instead of 3KVDC isolation

The information and specifications contained in this brief are believed to be accurate and reliable at the time of publication. Specifications are subject to change without notice. Refer to product specification sheet for performance characteristics and application guidelines.