

## BAE SERIES, 1/8 BRICK, UP TO 150W

### **FEATURES:**

- √ 5 years warranty
- ✓ Output current up to 30A
- √ 1500Vdc isolation voltage
- ✓ Efficiency up to 93%
- ✓ Operating temperature range -40°C to +85°C
- ✓ Under voltage, over current, short circuit, over voltage protection
- ✓ Optional heat sink, remote on/off
- ✓ Adjustable output voltage



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (A)	Efficiency Typ.
BAE24-33V25	24(18~36)	3.3	25.0	88%
BAE48-12V25		1.2	25.0	86%
BAE48-18V20		1.8	20.0	88%
BAE48-18V25		1.8	25.0	85%
BAE48-25V25		2.5	25.0	91%
BAE48-25V30		2.5	30.0	90%
BAE48-33V10		3.3	10.0	88%
BAE48-33V15		3.3	15.0	92%
BAE48-33V20		3.3	20.0	91%
BAE48-33V25	48(36~72)	3.3	25.0	91%
BAE48-33V30		3.3	30.0	91%
BAE48-50V10		5.0	10.0	92%
BAE48-50V15		5.0	15.0	92%
BAE48-50V <mark>20</mark>		5.0	20.0	93%
BAE48-50V25		5.0	25.0	92%
BAE48-120V4		12.0	4.0	89%
BAE48-120V6		12.0	6.0	92%
BAE48-150V4		15.0	3.5	92%

#### Notes:

- 1. Other input and output models may available on request;
- 2. You may request for the models with heatsink, plus "R" in the suffix, e.g. BAE24-33V25R.

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# DC-DC Converter Bricks, Open/Enclosed

# BAE SERIES, 1/8 BRICK, UP TO 150W

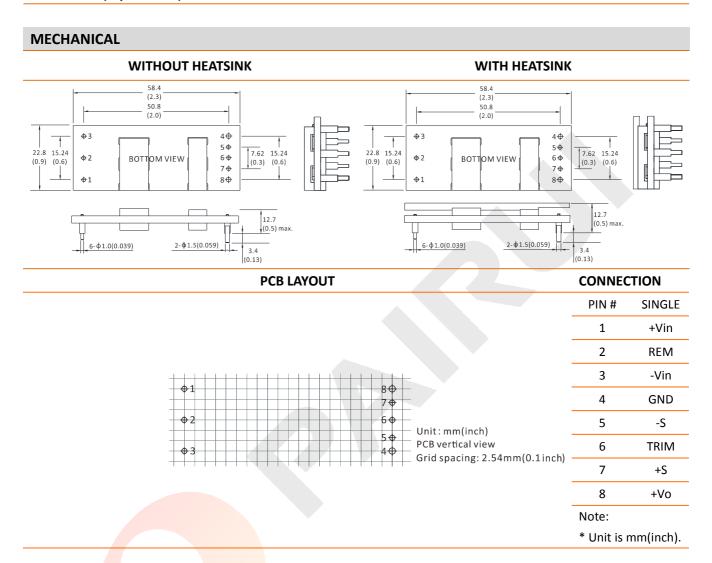
ELECTRICAL			
Industrial to an area	24Vdc	18-36Vdc	
Input voltage range	48Vdc	36-72Vdc	
	Negative legie	OFF: High level or left close	
Remote control	Negative logic	ON: Low level or grounded	
Remote control	Positive logic	ON: High level or left open	
	Positive logic	OFF: Low level or grounded	
Output power	Input voltage range	50-125W	
Output voltage	Single output	1.2/1.8/2.5/3.3/5/12/15Vdc	
Output setting accuracy	Input voltage range	±1%	
Output voltage adjustable	Positive logic	-20% - +10%	
Line regulation	Full load	±0.2%	
Load regulation	10%-100% full load	±0.5%	
Dynamic response	250/ 500/ 750/ load canability	ΔVo/Δt: ±4.0%/500μs	
(transient/recovery time)	25%-50%-75% load capability		
Ripple and noise	Parallel test, 20MHz wide range	100mVp-p max.	
Operating frequency	Typical value	300KHz typ.	
	Input to output	1500Vdc	
Isolation voltage	Input to case	1050Vdc	
	Output to case	500Vdc	
Isolation resistance		10ΜΩ	
Safety		IEC-60950-1, UL-60950-1	
Salety		EN-60950-1, GB4943	
Temperature coefficient	<u></u>	200ppm	
Operating temperature range		-40°C to +85°C	
Storage temp <mark>era</mark> ture range		-40°C to +105°C	
Over temperature protection	Typical	110°C typ.	
Under voltage protection		Yes	
Over current protection		Yes	
Short circuit protection		Yes	
Over voltage protection		Yes	
Relative humidity		95% max.	
MTBF	Bellcore TR-332, 25°C	2x10 <sup>6</sup> Hrs	

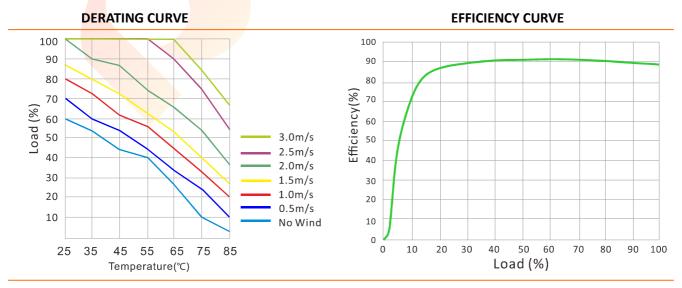
Notes: Unless otherwise specified, all the parameters of the test conditions are as follows: ambient temperature 25°C, the nominal input voltage, pure resistive nominal load.

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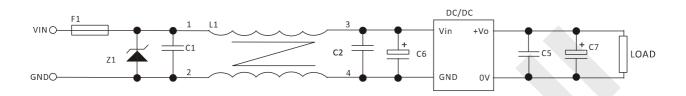




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### **NOTES**

#### RECOMMENDED TEST AND APPLICATION CIRCUIT



- 1. TVS&FUSE be helpful with over voltage protection and inrush limiting. Recommended FUSE better be 1.5~2times of the rated current .
- 2. The input filter capacitor C6 could select the aluminum electrolytic capacitors or tantalum capacitors, and the withstand voltage should be greater than the highest input voltage. Recommended capacitor should be between  $22\mu F^{\sim}100\mu F$ .
- 3. C1,C2 for the input filter capacitor, $0.1^{\sim}1\mu\text{F}$  high-frequency ceramics capacitor or chip capacitor are recommended. The withstand voltage of output filter C5, C7 should be greater than the highest output voltage. Recommended capacitor of C7 better within  $100\mu\text{F}$  and C5 connected with the chip to reduce the input voltage peak, recommended  $0.1^{\sim}1\mu\text{F}$  high-frequency ceramics capacitor or chip capacitor.



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