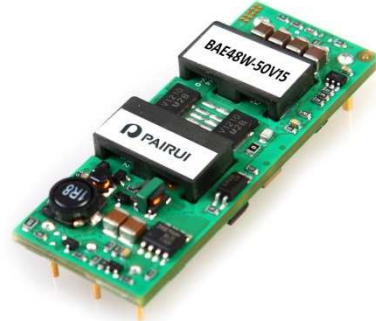


BAEW SERIES, 1/8 BRICK, UP TO 75W, 4:1 INPUT RANGE

FEATURES:

- ✓ 5 years warranty
- ✓ Output current up to 15A
- ✓ 1500Vdc isolation voltage
- ✓ Efficiency up to 92%
- ✓ 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.
BAE48W-50V15	48(18~72)	5.0	15.0	89%
BAE48W-120V4		12.0	4.0	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. BAE48W-50V15R.

ELECTRICAL

Input voltage range	Wide 48Vdc	18-72Vdc
Remote control	Negative logic	OFF: High level or left close ON: Low level or grounded
	Positive logic	ON: High level or left open OFF: Low level or grounded
Output power	Input voltage range	Up to 75W
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 (transient/recovery time)	25%-50%-75% load capability	$\Delta V_o/\Delta t$: ±4.0%/500 μ s
Ripple and noise	Parallel test, 20MHz wide range	100mVp-p max.
Operating frequency	Typical value	300KHz typ.
Isolation voltage	Input to output	1500Vdc
	Input to case	1050Vdc
	Output to case	500Vdc
Isolation resistance	---	10M Ω

BAEW SERIES, 1/8 BRICK, UP TO 75W, 4:1 INPUT RANGE

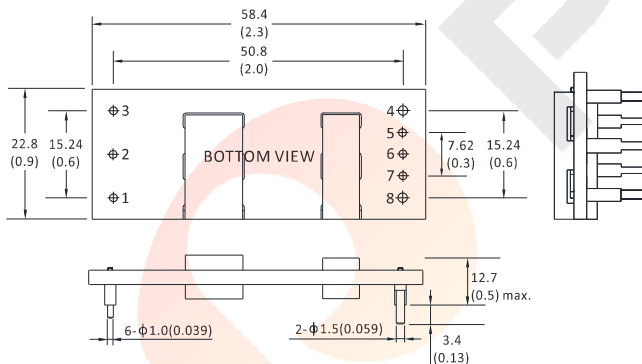
ELECTRICAL

Safety	---	IEC-60950-1, UL-60950-1 EN-60950-1, GB4943
Temperature coefficient	---	200ppm
Operating temperature range	---	-40°C to +85°C
Storage temperature 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 ⁶ Hrs

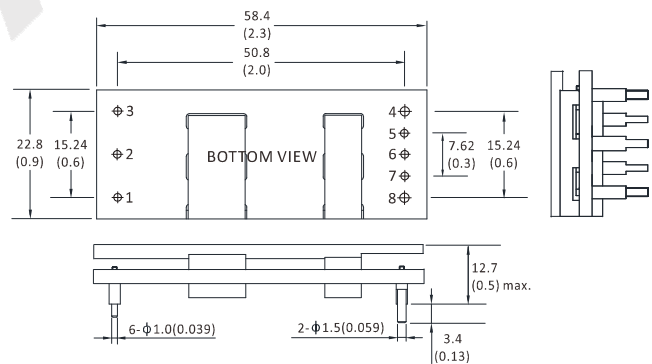
Notes: Unless otherwise specified, all the parameters of the test conditions are as follows: ambient temperature 25°C, the nominal input voltage, pure resistive nominal load.

MECHANICAL

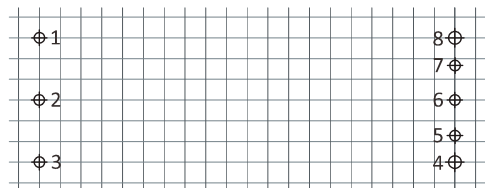
WITHOUT HEATSINK



WITH HEATSINK



PCB LAYOUT



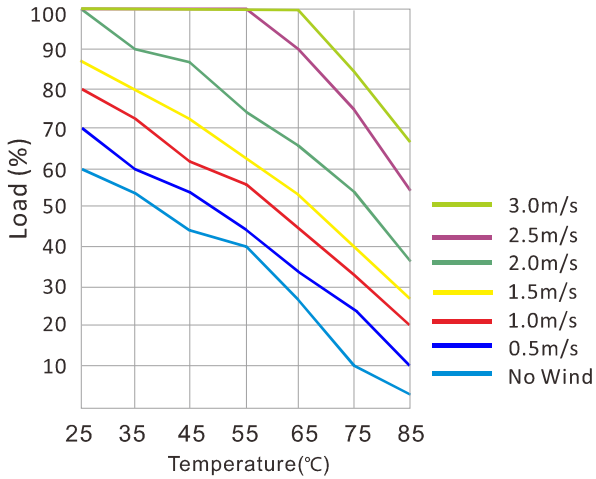
Unit: mm(inch)
PCB vertical view
Grid spacing: 2.54mm(0.1 inch)

CONNECTION

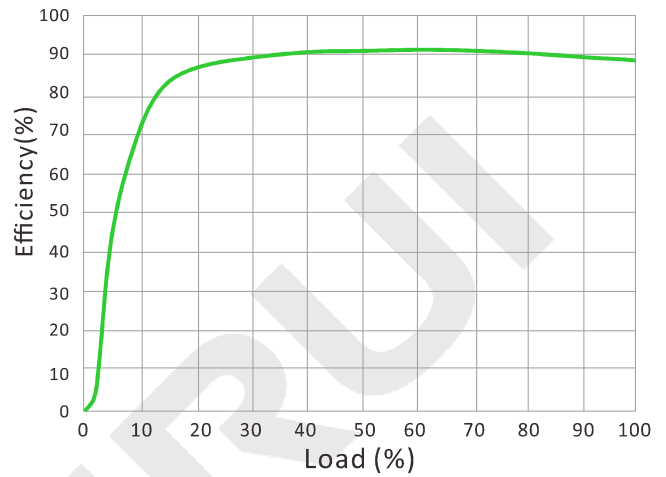
PIN #	SINGLE
1	+Vin
2	REM
3	-Vin
4	GND
5	-S
6	TRIM
7	+S
8	+Vo

BAEW SERIES, 1/8 BRICK, UP TO 75W, 4:1 INPUT RANGE

DERATING CURVE

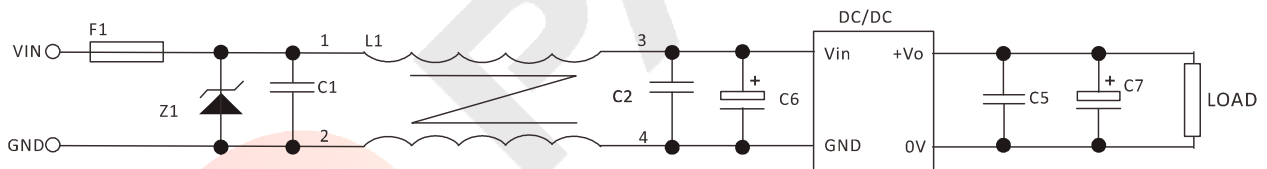


EFFICIENCY CURVE



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 μ F~100 μ F.
3. C1,C2 for the input filter capacitor,0.1~1 μ 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 μ F and C5 connected with the chip to reduce the input voltage peak, recommended 0.1~1 μ F high-frequency ceramics capacitor or chip capacitor.