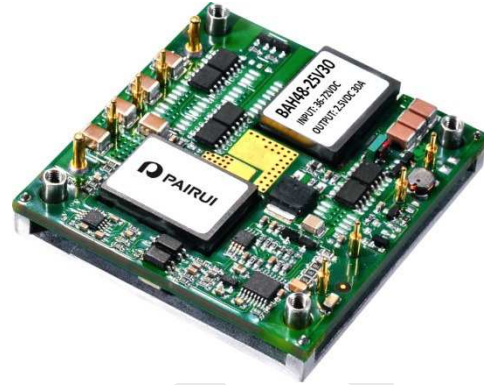


BAH SERIES, 1/2 BRICK, UP TO 300W

FEATURES:

- ✓ 5 years warranty
- ✓ 1500Vdc isolation voltage
- ✓ Output current up to 60A
- ✓ Efficiency up to 93%
- ✓ Operating temperature range -40°C to +85°C
- ✓ Under voltage, over current, short circuit, over voltage protection
- ✓ Remote on/off
- ✓ Adjustable output voltage



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (A)	Efficiency Typ.
BAH48-25V30	48(36~72)	2.5	30.0	88%
BAH48-25V40		2.5	40.0	90%
BAH48-25V50		2.5	50.0	89%
BAH48-25V60		2.5	60.0	87%
BAH48-33V15		3.3	15.0	91%
BAH48-33V25		3.3	25.0	92%
BAH48-33V30		3.3	30.0	93%
BAH48-33V40		3.3	40.0	89%
BAH48-33V50		3.3	50.0	89%
BAH48-33V60		3.3	60.0	89%
BAH48-50V15		5.0	15.0	94%
BAH48-50V20		5.0	20.0	92%
BAH48-50V30		5.0	30.0	93%
BAH48-50V40		5.0	40.0	92%
BAH48-120V25		12.0	25.0	93%

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. BAH48-25V30R.

ELECTRICAL

Input voltage range	48Vdc	36-72Vdc
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	50-300W

BAH SERIES, 1/2 BRICK, UP TO 300W

ELECTRICAL

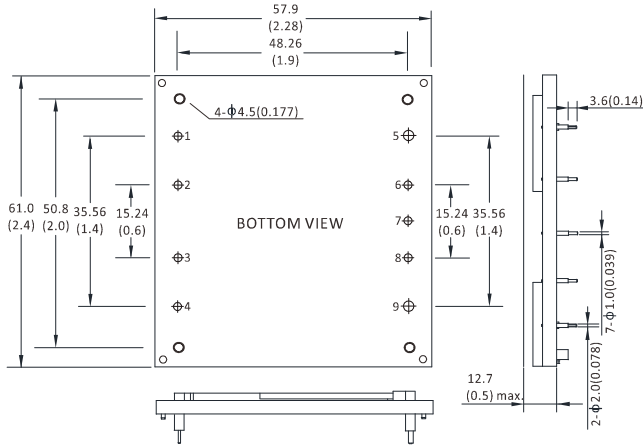
Output voltage	Single output	2.5/3.3/5/12Vdc
Output voltage accuracy	Input voltage range	±1%
Output voltage adjustable	Positive	-20% - +10%
Line regulation	Full load	±0.2%
Load regulation	10%-100% full load	±0.5%
Dynamic response (transient/recovery time)	25%-50%-75% load capability	$\Delta V_o/\Delta t$: ±4.0%/500 μ s
Ripple and noise	Parallel test, 20MHz wide range	180mVp-p max.
Operating frequency	Typical value	250KHz typ.
Isolation voltage	Input to output	1500Vdc
	Input to case	1050Vdc
	Output to case	500Vdc
Isolation resistance	---	10M Ω
Safety	---	IEC-60950-1, UL-60950-1 EN-60950-1, GB4943
Temperature coefficient	---	300ppm
Operating temperature range	Auxiliary heat sink	-40°C to +85°C
Storage temperature range	---	-40°C to +125°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.
Packing	---	Hole package
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.

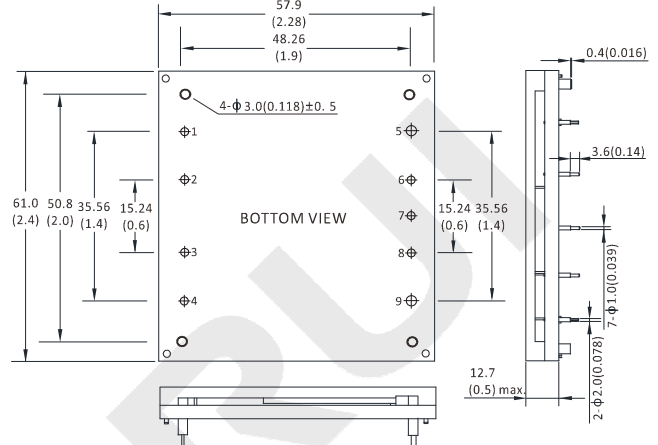
BAH SERIES, 1/2 BRICK, UP TO 300W

MECHANICAL

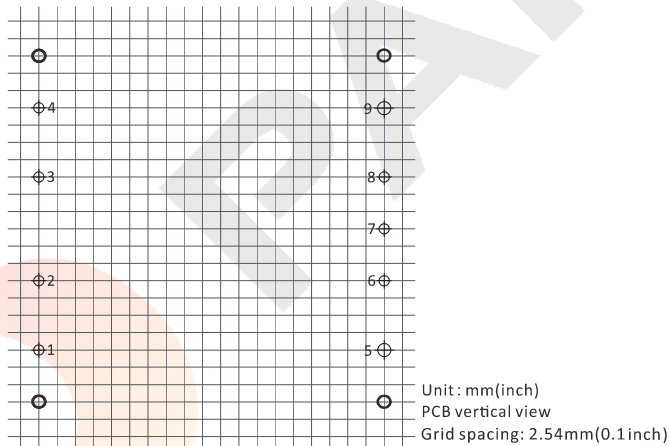
WITHOUT HEATSINK



WITH HEATSINK



PCB LAYOUT



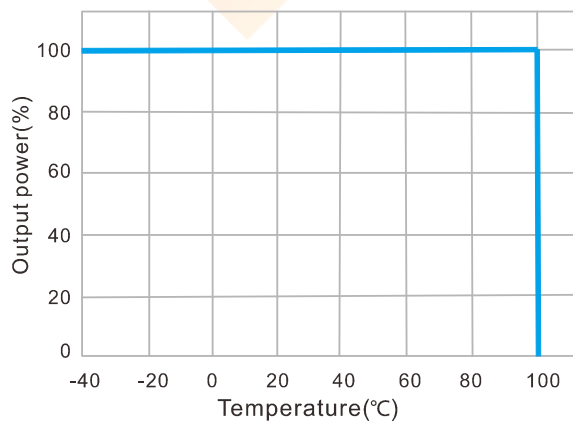
CONNECTION

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

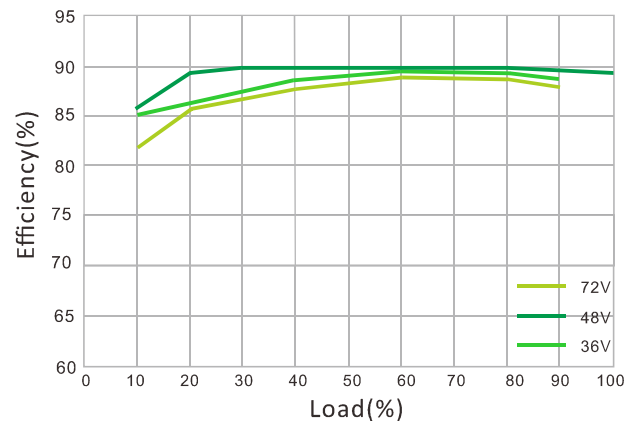
Note:

* Unit is mm(inch).

DERATING CURVE



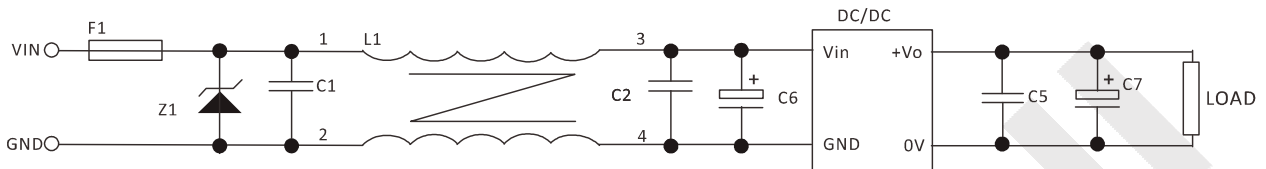
EFFICIENCY CURVE



BAH SERIES, 1/2 BRICK, UP TO 300W

NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT



NOTES

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 $22\mu\text{F}\sim 100\mu\text{F}$.
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.