



BAQ SERIES, 1/4 BRICK, UP TO 200W

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
- ✓ Remote on/off
- ✓ Adjustable output voltage



BAQ24-33V25				Тур.
		3.3	25.00	88%
BAQ24-50V10		5.0	10.00	90%
BAQ24-50V15		5.0	15.00	91%
BAQ24-50V20	24/19~26\	5.0	20.00	90%
BAQ24-50V30	24(18~36)	5.0	30.00	90%
BAQ24-120V4		12.0	4.20	90%
BAQ24-120V8		12.0	8.33	93%
BAQ24-120V17		12.0	16.67	93%
BAQ48-12V20		1.2	20.0	87%
BAQ48-12V25		1.2	25.0	87%
BAQ48-12V30		1.2	30.0	87%
BAQ48-15V25		1.5	25.0	88%
BAQ48-18V10		1.8	10.0	88%
BAQ48-18V15		1.8	15.0	88%
BAQ48-18V20		1.8	20.0	89%
BAQ48-18V25		1.8	25.0	88%
BAQ48-18V30	48(36~72)	1.8	30.0	88%
BAQ48-25V10		2.5	10.0	89%
BAQ48-25V15		2.5	15.0	91%
BAQ48-25V20		2.5	20.0	91%
BAQ48-25V25		2.5	25.0	91%
BAQ48-25V30		2.5	30.0	88%
BAQ48-33V10		3.3	10.0	88%
BAQ48-33V15		3.3	15.0	91%
BAQ48-33V20		3.3	20.0	91%
BAQ48-33V25		3.3	25.0	91%

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DC-DC Converter Bricks, Open/Enclosed

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Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (A)	Efficiency Typ.
BAQ48-33V30		3.3	30.0	91%
BAQ48-33V35		3.3	35.0	91%
BAQ48-50V6		5.0	6.0	89%
BAQ48-50V10		5.0	10.0	93%
BAQ48-50V15		5.0	15.0	91%
BAQ48-50V20	48(36~72)	5.0	20.0	94%
BAQ48-50V25	40(30 72)	5.0	25.0	90%
BAQ48-50V30		5.0	30.0	91%
BAQ48-120V8		12.0	8.3	91%
BAQ48-120V10		12.0	10.0	92%
BAQ48-120V13		12.0	12.5	91%
BAQ48-120V25		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. BAQ24-33V25R.

land the second second	24Vdc	18-36Vdc		
Input voltage range	48Vdc	36-72Vdc		
	Nonetive legis	OFF: High level or left close		
lamata cantral	Negative logic	ON: Low level or grounded		
Remote control	Decitive logic	ON: High level or left open		
	Positive logic	OFF: Low level or grounded		
Output power	Input voltage range	30-200W		
Output voltage	Single output	1.2/1.5/1.8/2.5/3.3/5/12Vdc		
Output voltage accuracy	Input voltage range	±1%		
Output volta <mark>ge adjustabl</mark> e	Positive logic	±10%		
Line regulation	Full load	±0.2%		
Load regulation	10%-100% full load	±0.5%		
Dynamic response	25%-50%-75% load capability	ΔVo/Δt: ±4.0%/500μs		
(transient/recovery time)	25%-50%-75% load capability			
Dinnla and naisa	Parallal tast 20MHz wide range	Output=12V, 200mVp-p		
Ripple and noise	Parallel test, 20MHz wide range	Other, 100mVp-p max		
Operating frequency	Typical	300KHz typ.		
Isolation voltage	Input to output	1500Vdc		
	Input to case	1050Vdc		
	Output to case	500Vdc		
Isolation resistance		10ΜΩ		

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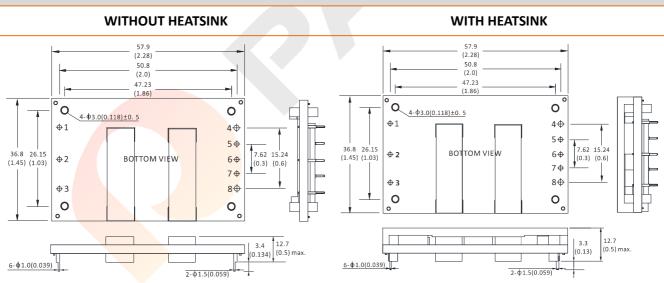


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ELECTRICAL				
Safety		IEC-60950-1, UL-60950-1		
Salety		EN-60950-1, GB4943		
Temperature coefficient		200ppm		
Operating temperature range	Auxiliary heat sink	-40°C to +85°C		
Storage temperature range		-40°C to +125°C		
Over temperature protection	Typical	110°C typ.		
Under voltage protection		Yes		
Over current protection		Yes		
Short circuit protection		Yes		
Over voltage protection		Yes		
Relative humidity		95% max.		
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℃, the nominal input voltage, pure resistive nominal load.

MECHANICAL

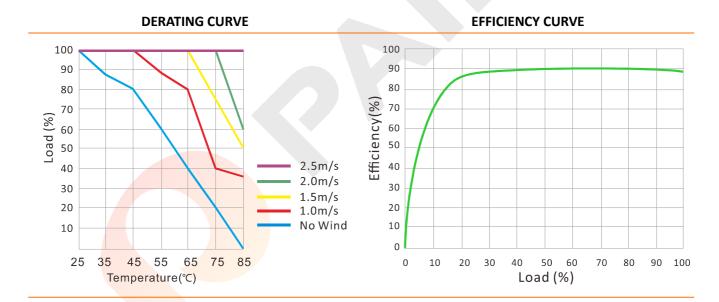




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MECHANICAL		
PCB LAYOUT	CONNECTION	
	PIN#	SINGLE
	1	-Vin
	2	REM
	3	+Vin
+3 8 7	4	GND
7 + - + 	5	-S
5 0	6	TRIM
Unit: mm(inch) PCB vertical view	7	+S
PCB vertical view Grid spacing: 2.54mm(0.1inch)	8	+Vo
	Note:	
	* Unit is m	nm(inch).

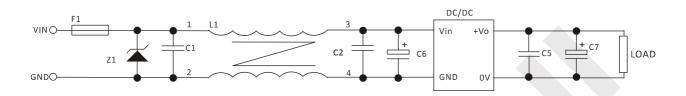




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NOTES

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 22μ 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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