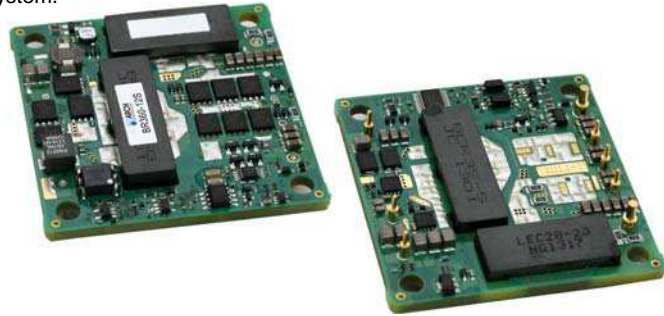


KEY FEATURES

- Input under Voltage Protection
- Over Current Protection (Hiccup Mode)
- Short Circuit Protection (Hiccup Mode)
- Over Voltage Protection (Hiccup Mode)
- Over Temperature Protection (Self-recovery)
- Remote ON/OFF Control
- Remote Sense
- Output Voltage Trim
- Negative Logic : BR360-3.3S and BR360-12S
- Positive Logic : BR360-48S
- UL60950-1 and CSA C22.2 No. 60950-1-07
- Meet UL94V-0 Flammability Requirements
- RoHS6 Compliant
- Size: 2.4 x 2.28 x 0.5 Inches
- 3-Years Product Warranty

DESCRIPTION

The BR360 series DC-DC converter are high-efficiency and power density standard 1/2 brick isolated models. This series contain 6 modules, output power from 100W to 360W, output voltage covering 3.3V, 5V, 12V and 48V four levels. All models support primary ON/OFF control, remote Sense and Trim function. This series which conform to the RoHS6 requirement can be used in the fields of communication, data transmission and distributed power supply system.



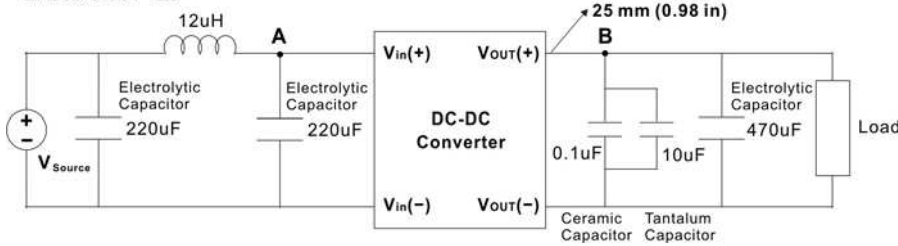
ELECTRICAL SPECIFICATIONS

Conditions: TA = 25°C (77°F), Airflow = 1.0 m/s (200 LFM), Vin = 48 V, Vout = 12 V, unless otherwise specified.

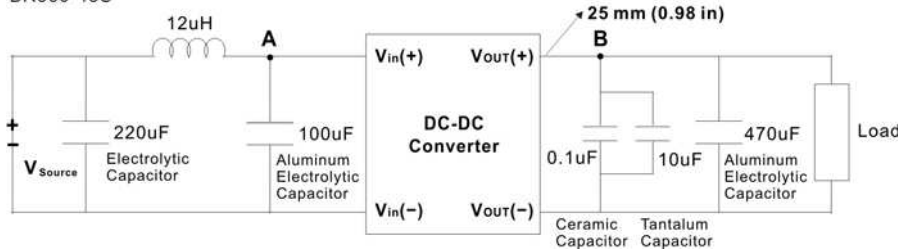
Model No.	BR360-3.3S	BR360-12S	BR360-48S	
Max Output Wattage (W)	198W	360W	153.6W	
Input	Voltage (V.DC.)			
	48V (36~75V)			
	Current (A) (max)	7.5A (Vin = 0 - 75 V; Iout = 60 A)	11A (Vin = 36 V; Iout = 30 A)	5.5A (Vin = 36 V; Iout = 3.2 A)
Output	No-Load Loss (W) (typ.)	4W	4.3W	1.2W
	Voltage Set Point (V.DC.)			
	3.3V			
	Current (A) (max.)			
	60A			
	Line Regulation (LL-HL) (typ.)			
	±0.2%			
Efficiency (typ.) (Vin = 48 V; TA=25°C (77°F))	Load Regulation (0-100%) (typ.)			
	±0.3%			
	Ripple & Noise (peak to peak) (typ.) (Oscilloscope Bandwidth:20 MHz)			
	300 mV			
Protection	Over Power Protection	Hiccup mode		
	Over Current Protection	Hiccup mode		
	Over Voltage Protection	3.8~5V Hiccup mode	14~16.5V Hiccup mode	53~59V Hiccup mode
Isolation	Short Circuit Protection (max.)			
	Hiccup mode			
Environment	Over Temperature Protection			
	Threshold:105~130°C / Hysteresis:5°C (min.) Self-recovery (The values are obtained by measuring the temperature of the PCB bottom near the thermal resistor.)			
	Voltage (V.DC.)			
	1500 VDC (Basic Isolation and Functional Isolation)			
	Operating Temperature			
Safety	-40°C...+85°C			
	Storage Temperature			
	-55°C...+125°C			
	Temperature Coefficient (max.)			
	0.02 % Vout / °C (TA = -40°C to +85°C (-40°F to +185°F))			
EMC	Humidity			
	95% RH			
	MTBF			
	1.5 Million Hours (Airflow = 1.5 m/s (300 LFM); TA = 40°C (104°F); 80% load; Telcordia SR332 Method 1 case 3)			
	Agency Approvals			
Physical	CE, UL, TUV			
	UL60950-1 and IEC/EN60950 Class B Requirements in FCC and EN55022 (After Connecting to an External Filtering Circuit)			
	Dimension (L x W x H)			
Other	2.4 x 2.28 x 0.5 Inches (61.0 x 57.9 x 13.0 mm) Tolerance ±0.5 mm			
	Weight			
	100 g			
	67.6 g			
Remote On/Off Voltage	82 g			
	Low level (V.DC.)			
	-0.7~1.2V			
On/Off Current	High level (V.DC.)			
	3.5~12V			
Low level (mA) (max.)				
1mA				

NOTE

BR360-3.3S / 12S

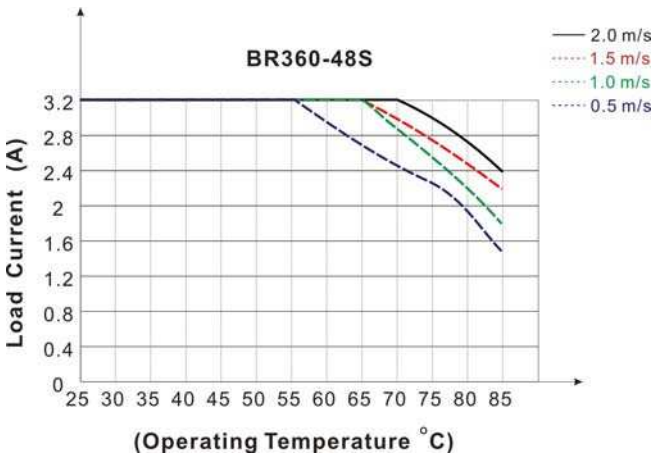
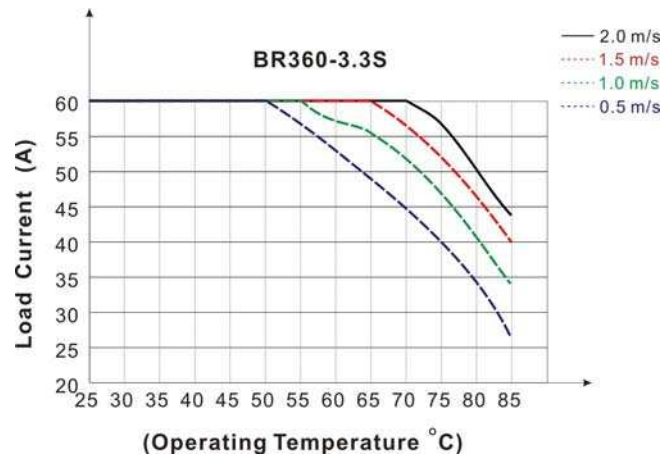
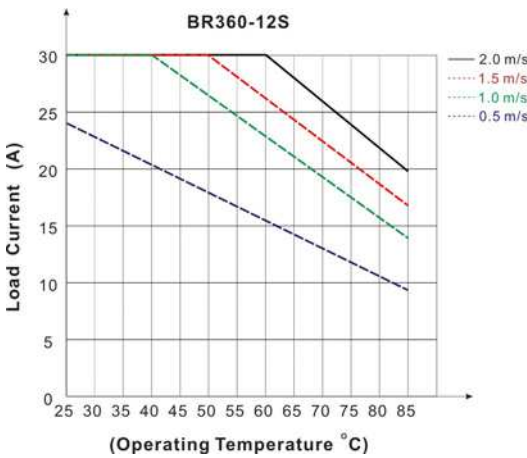


BR360-48S



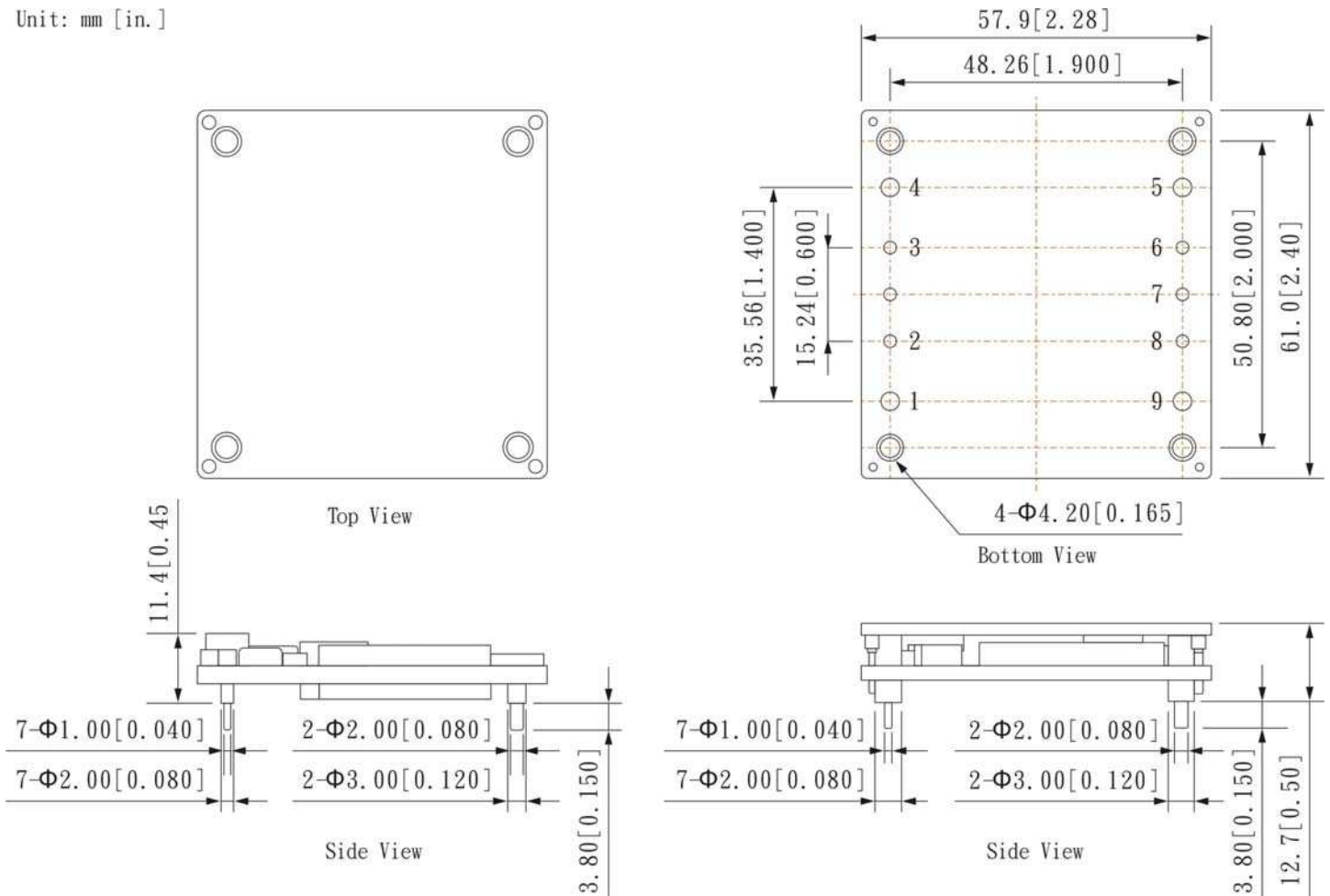
1. During the test of input reflected ripple current, the input terminal must be connected to a 12uH inductor and a 220uF electrolytic capacitor.
2. Point B, which is for testing the output voltage ripple, is 25 mm (0.98 in.) away from the Vout(+) pin.

DERATING



MECHANICAL DIMENSION

Unit: mm [in.]



PIN#	3.3S	48S
	12S	
1	+DC IN	+DC IN
2	ON / OFF CTL	ON / OFF CTL
3	NC	CASE
4	-DC IN	-DC IN
5	-DC OUT	-DC OUT
6	-Sense	-Sense
7	Trim	Trim
8	+Sense	+Sense
9	+DC OUT	+DC OUT

DIMENSIONS TOLERANCE

.x	± 0.2 mm (0.007 in)
.xx	± 0.13 mm (0.005 in)