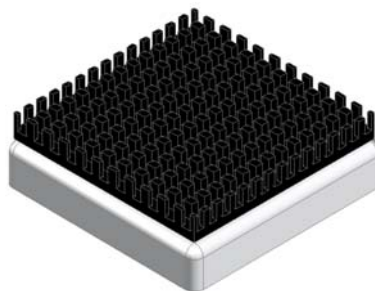




Features

- Wide 4 : 1 Input Voltage Range(9~36V)
- High Efficiency up to 88%
- Output Short Circuit Protection:
Hiccup, Continuous & Auto Recovery
- Over Temperature Protection
- Adjustable Output Voltage: $\pm 10\%$
- Optional Heat-sink



Technical Specification

 All specifications are typical at nominal input, full load and 25°C unless otherwise stated.

Model Number	Input Voltage Range	Output Voltage (Vdc)	Output Current (mA)		Input Current (mA)		Eff. ⁽¹⁾ (%)	Capacitive Load, max. (uF)
			Min. Load	Full. Load	No Load	Full Load		
BWC60-24S2W	9~36V Nominal: 24Vdc	12	0	5000	100	2976	88	-----

Input Specifications

Input voltage	24V nominal input	9-36Vdc
Input filter		Pi type
Input surge voltage (100ms max.)	24V nominal input	50Vdc
Remote ON/OFF	Converter: ON	Open or $3.5V < V_r < 12V$
	Converter: OFF	Short ⁽²⁾ or $0V < V_r < 0.7V$
Sourcing current of remote control pin	Nominal Vin	< 0.2 mA
Idle input current (at Remote OFF state)	Nominal Vin	< 20 mA

Environmental Specifications

Operating ambient temperature	-40°C to +85°C (with derating)
Maximum case temperature	+100°C
Storage temperature range	-55°C to +105°C
Relative humidity	95% RH max.
Temperature coefficient	$\pm 0.02\%$ / °C max.

Output Specifications

Output power	60 Watts max.	
Voltage accuracy	Full load and nominal Vin	±1%
Line regulation	LL to HL at full load	±0.2%
Load Regulation	25% load to full load	±0.5%
Ripple and Noise (20MHz Bandwidth)	50mVp-p max.	
Over voltage protection	12Vout models	15V
Capacitive load	See table	
Over load protection	% of full load at nominal input	110% min.
Thermal shutdown	115°C typ.	



Short circuit protection	Hiccup, automatic recovery	
Transient response settling time	50% load step change	300 μ s typ.
Transient response over shoot	di/dt=0.8A/ μ s	$\leq \pm 5\%$ of Vo

General Specifications

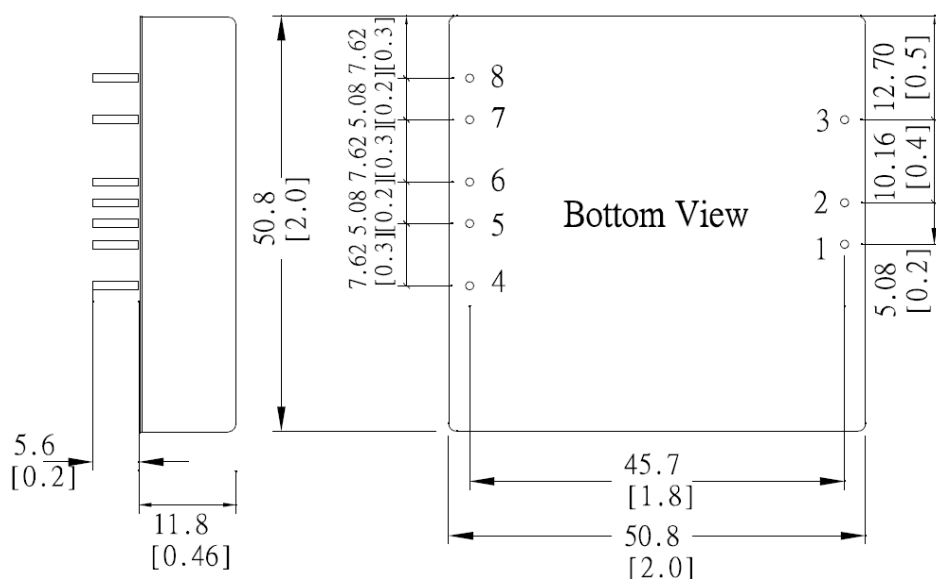
Efficiency	Nominal input	See table
Isolation voltage	Input to output	1500Vdc
Isolation resistance	500Vdc	10 ⁹ Ohms min.
Isolation capacitance		1200pF typ.
Switching frequency		300kHz typ.
Reliability, calculated MTBF		8.88 $\times$ 10 ⁵ Hrs

Physical Specifications

Case material	Nickel-coated copper
Base material	FR4 PCB
Potting material	Silicon rubber (UL94 V-0)
Dimensions	2.00 $\times$ 2.00 $\times$ 0.46 Inch (50.8 $\times$ 50.8 $\times$ 11.8 mm)
Weight	N/A

Note

1. Typical value, tested at nominal input and full load.
2. Short to -Vin (Pin 2).
3. Specifications subject to change without notice.

Mechanical Dimensions

Unit: mm [inch]
Tolerance: ± 0.5 [± 0.02]

Pin Assignment	
Pin	Single
1	+Vin
2	-Vin
3	Remote On/Off
4	-Sense
5	+Sense
6	+Vout
7	-Vout
8	Trim



Heat-sink

Material: Aluminum

Weight: 19g (0.67oz) (without converter)

Note:

The product label on converter has to be removed before mounting the heat-sink.

For volume orders, converters will be supplied with heat-sink already mounted. Please contact factory for quotation.

