SW, CW Series







10 to 40 Watts

Single Outputs

- 9-18 Vdc inputs 18-32 Vdc inputs
- Efficiency to 80%
- Regulated output

Specifications

INPUT

Voltage Range

9-18Vdc 18-32 Vdc

OUTPUT

Voltage Tolerance Ripple and Noise

Overvoltage Protection

Short Circuit Protection Trim Adjustability Temperature Coefficient ± 2% (trim adjustable) 7mVRMS to 3 Amps 13 mVRMS >3 Amps Available with crowbar add option C Power Foldback

±10% (typ) 0.02% / °C

GENERAL

Regulation: Line

0.3% Output to 3 Amps 0.5% Output above 3 Amps 0.3% Output to 3 Amps Load 0.5% Output above 3 Amps

Efficiency 60-80% (typ)

I/O Isolation Not galvanically isolated

ENVIRONMENTAL

Operating Temperature Storage Temperature Cooling

-25°C to +71°C No Derating -25°C to +105°C Free-air Convection

All specifications are typical at nominal line and full load at 25°C unless otherwise noted and are subject to change without notice.

he SW and CW Series are highly efficient, single output DC/DC converters. Proportional energy transfer techniques enable these encapsulated modular converters to maintain well regulated outputs despite large variations in input voltage. The 2:1 input range makes the SW and CW Series ideal for applications where the input dc power is derived from a battery, a motor generator or other types of poorly regulated power sources.

Due to a high efficiency design these converters operate with no derating over the entire operating range to +71°C.

The output of the SW and CW Series can be trim-adjusted by user added circuitry to fine tune for optimum supply voltage

Applications

The SW and CW Series are designed for battery-powered or portable, spacecritical applications, as well as other applications not requiring input-output isolation.

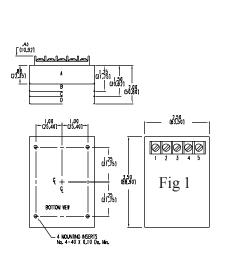


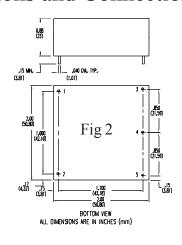
SEMICONDUCTOR CIRCUITS, INC.

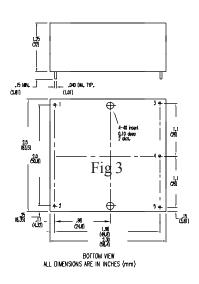
SW, CW Series Ordering Information

Input Voltage Range	Output Voltage	Output Current	Case	Model Number	Options
9-18 Vdc	5 Vdc	2000mA	2	SW11-200-12	
9-18 Vdc	5 Vdc	2000mA	1B	CW11-200-12	
18-32 Vdc	5 Vdc	2000mA	3	SW11-200-24	С
18-32 Vdc	5 Vdc	2000mA	1B	CW11-200-24	
9-18 Vdc	5 Vdc	3000mA	4B	SW11-300-12	С
9-18 Vdc	5 Vdc	3000mA	1C	CW11-300-12	С
18-32 Vdc	5 Vdc	3000mA	4B	SW11-300-24	С
18 -32 Vdc	5 Vdc	3000mA	1C	CW11-300-24	С
9-18 Vdc	5 Vdc	4000mA	4B	SW11-400-12	С
9-18 Vdc	5 Vdc	4000mA	1C	CW11-400-12	С
18-32 Vdc	5 Vdc	4000mA	4B	SW11-400-24	С
18 -32 Vdc	5 Vdc	4000mA	1C	CW11-400-24	С
9-18 Vdc	5 Vdc	6500mA	1D	CW11-650-12	С
18-32 Vdc	5 Vdc	6500mA	1D	CW11-650-24	С
9-18 Vdc	5 Vdc	8000mA	1D	CW11-800-12	С
18-32 Vdc	5 Vdc	8000mA	1D	CW11-800-24	С
18-32 Vdc	12 Vdc	2000mA	3	SW12-200-24	
18-32 Vdc	12 Vdc	2000mA	1C	CW12-200-24	
18-32 Vdc	12 Vdc	3500mA	4D	SW12-350-24	
18-32 Vdc	12 Vdc	3500mA	1D	CW12-350-24	
18-32 Vdc	15 Vdc	2000mA	3	SW13-200-24	
18-32 Vdc	15 Vdc	2000mA	1C	CW13-200-24	

Dimensions and Connections

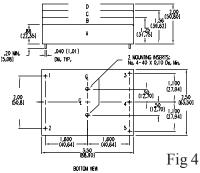






PIN CONNECTIONS Single Output

- 1. +Input
- 2. -Input
- 3. +Output
- 4. Trim
- 5. Common



NOTES:

- 1. Ripple measured with a 3.3 mf tantalum capacitor across each output.
- 2. Load regulation from full load to minimum load (25%).
- 3. External Output Trimming: Output may be externally trimmed ±5%.

11/01/2001