

# SW, CW Series



## DC/DC

## 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
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### OUTPUT

Voltage Tolerance	± 2% (trim adjustable)
Ripple and Noise	7mVRMS to 3 Amps 13 mVRMS >3 Amps
Overvoltage Protection	Available with crowbar add option C
Short Circuit Protection	Power Foldback
Trim Adjustability	±10% (typ)
Temperature Coefficient	0.02% / °C

### GENERAL

Regulation:	
Line	0.3% Output to 3 Amps 0.5% Output above 3 Amps
Load	0.3% Output to 3 Amps 0.5% Output above 3 Amps
Efficiency	60-80% (typ)
I/O Isolation	Not galvanically isolated

### ENVIRONMENTAL

Operating Temperature	-25°C to +71°C No Derating
Storage Temperature	-25°C to +105°C
Cooling	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.

The 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, space-critical applications, as well as other applications not requiring input-output isolation.



**SEMICONDUCTOR  
CIRCUITS, INC.**

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## 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	C
18-32 Vdc	5 Vdc	2000mA	1B	CW11-200-24	
9-18 Vdc	5 Vdc	3000mA	4B	SW11-300-12	C
9-18 Vdc	5 Vdc	3000mA	1C	CW11-300-12	C
18-32 Vdc	5 Vdc	3000mA	4B	SW11-300-24	C
18 -32 Vdc	5 Vdc	3000mA	1C	CW11-300-24	C
9-18 Vdc	5 Vdc	4000mA	4B	SW11-400-12	C
9-18 Vdc	5 Vdc	4000mA	1C	CW11-400-12	C
18-32 Vdc	5 Vdc	4000mA	4B	SW11-400-24	C
18 -32 Vdc	5 Vdc	4000mA	1C	CW11-400-24	C
9-18 Vdc	5 Vdc	6500mA	1D	CW11-650-12	C
18-32 Vdc	5 Vdc	6500mA	1D	CW11-650-24	C
9-18 Vdc	5 Vdc	8000mA	1D	CW11-800-12	C
18-32 Vdc	5 Vdc	8000mA	1D	CW11-800-24	C
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

