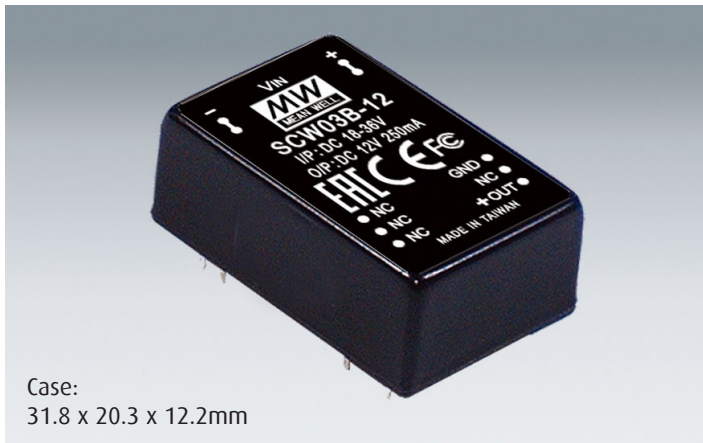


# SCW03 Series

3W DC-DC Regulated Single Output Converter Power Supply



Case:  
31.8 x 20.3 x 12.2mm

## Features

- 2:1 wide input range
- 4:1 wide input range (option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation (option)
- Built-in EMI filter
- Protections: Short circuit / Overload
- Cooling by free air convection
- Five-sided shield metal case
- 100% burn-in test
- Low cost/ high reliability
- Approvals: FCC / CE
- 2 years warranty



## Specification

INPUT	Voltage Range	A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC								
	DC Current	Full Load: A: 338mA B: 167mA C: 83mA								
		No Load: A: 18mA B: 10mA C: 5mA								
	Filter	Pi network								
	Protection	Fuse recommended								
OUTPUT	MODEL No.	SCW03A-05	SCW03B-05	SCW03C-05	SCW03A-12	SCW03B-12	SCW03C-12	SCW03A-15	SCW03B-15	SCW03C-15
	DC Voltage	5V	5V	5V	12V	12V	12V	15V	15V	15V
	Current Range	60 ~ 600mA	60 ~ 600mA	60 ~ 600mA	25 ~ 250mA	25 ~ 250mA	25 ~ 250mA	20 ~ 200mA	20 ~ 200mA	20 ~ 200mA
	Rated Power	3W	3W	3W	3W	3W	3W	3W	3W	3W
	R&N	50mVp-p	50mVp-p	50mVp-p	60mVp-p	60mVp-p	60mVp-p	60mVp-p	60mVp-p	60mVp-p
	Efficiency	74%	75%	76%	80%	80%	82%	80%	80%	82%
	Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Voltage Accuracy	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%
	Switching Frequency	50KHz min.								
PROTECTION	Overload	160 ~ 250% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed								
	Short Circuit	All output equipped with short circuit Protection type : Hiccup mode, recovers automatically after fault condition is removed								
ENVIRONMENT	Working Temperature	-40 ~ +71°C (Please refer to 'Derating Curve' section)								
	Working Humidity	20 ~ 90% RH non-condensing								
	Storage Temperature	-40 ~ +105°C, 10 ~ 95% RH non-condensing								
	Temp Coefficient	±0.03%/°C (0 ~ 50°C)								
	Vibration	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes								
SAFETY & EMC	Safety Standards	EAC TP TC 004 approved								
	Withstand Voltage	I/P-O/P: 1KVdc								
	Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH								
	Isolation Capitance	80pF Max.								
	EMC Emission	Compliance to EN55032 Class B, FCC part 15 Class B, EAC TP TC 020								
	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A, EAC TP TC 020								
OTHERS	M.T.B.F.	900K hrs min. MIL-HDBK-217F (25°C)								
	Weight	15g								
	Packing	68g; 160pcs/12Kg/1.19CUFT								

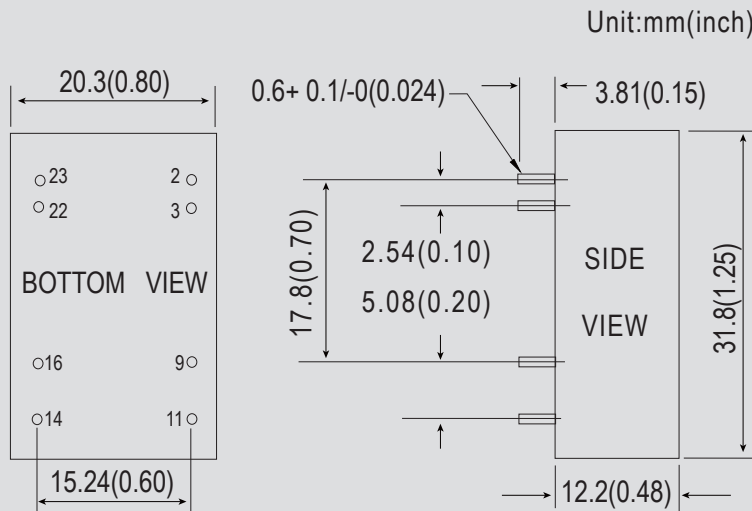
1. All parameters NOT specially mentioned are measured at 24VDC input, rated load and 25°C of ambient temperature.
2. Ripple and Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with 0.1uf & 47uf parallel capacitor.
3. Line regulation is measured from low line to high line at rated load.
4. Load regulation is measured from 10% to 100% at rated load.
5. Please prevent the converter in overload or short circuit condition for more than 30 seconds.

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3W DC-DC Regulated Single Output Converter Power Supply



## Mechanical Diagram



## Pin Configuration

Pin no.	Output Single
2 & 3	-Vin
9	N.C.
11	N.C.
14	+Vout
16	-Vout
22 & 23	+Vin

Pin Size is Tolerance  $0.5 \pm 0.05\text{mm}$ , Tolerance .X or .XX =  $\pm 0.5\text{mm}$

## Derating Curve

