



# THE DATASHEET OF SCW03B-12





- 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

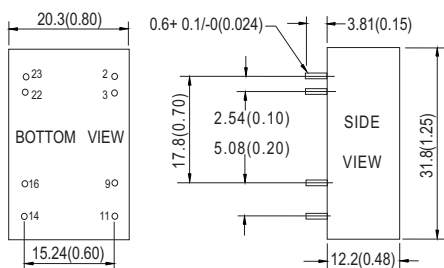


## SPECIFICATION

ORDER NO.	SCW03A-05	SCW03B-05	SCW03C-05	SCW03A-12	SCW03B-12	SCW03C-12	SCW03A-15	SCW03B-15	SCW03C-15	
OUTPUT	DC VOLTAGE			12V			15V			
	CURRENT RANGE			25 ~ 250mA			20 ~ 200mA			
	RATED POWER									3W
	RIPPLE & NOISE (max.) Note.2			50mVp-p			60mVp-p			
	LINE REGULATION Note.3			±0.5%						
	LOAD REGULATION Note.4			±0.5%						
	VOLTAGE ACCURACY									±2.0%
	SWITCHING FREQUENCY									50KHz min.
INPUT	VOLTAGE RANGE									A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC
	EFFICIENCY (Typ.)									74% 75% 76% 80% 80% 82% 80% 80% 82%
	DC CURRENT									Full load A: 338mA B: 167mA C: 83mA No load A: 18mA B: 10mA C: 5mA
	FILTER									Pi network
	PROTECTION									Fuse recommended
PROTECTION (Note. 5)	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 TEMP.									-40 ~ +71°C (Refer to "Derating Curve")
	WORKING HUMIDITY									20% ~ 90% RH non-condensing
	STORAGE TEMP., HUMIDITY									-40 ~ +105°C, 10 ~ 95% RH
	TEMP. COEFFICIENT									±0.03% / °C (0 ~ 50°C)
	VIBRATION									10 ~ 500Hz, 2G 10min./1 cycle, period for 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 CAPACITANCE									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	MTBF									900khrs min. MIL-HDBK-217F(25°C)
	DIMENSION									31.8*20.3*12.2mm or 1.25**0.80**0.48" inch (L*W*H)
	WEIGHT									15g

### Mechanical Specification

Unit:mm(inch)

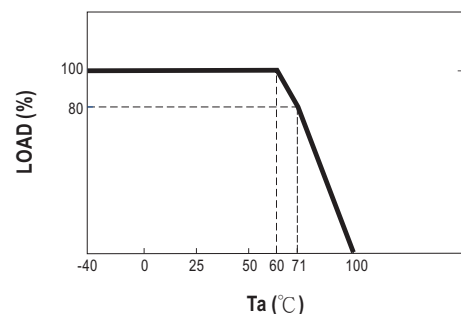


Pin Size is Tolerance 0.5±0.05mm, Tolerance .X or .XX= ±0.5mm

### Pin Configuration

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

### Derating Curve



### NOTE

1. All parameters are specified at normal input, rated load, 25°C 70% RH ambient.
2. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
3. Line regulation is measured from low line to high line at rated load.
4. Load regulation is measured from 10% to 100% rated load.
5. Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- [View SCW03B-12 on WIN SOURCE](#)
- [Mean Well Enterprises Co., Ltd. Information](#)

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- ✓ Shortage Management
- ✓ Alternative Solution
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