



■ Features :

- 2:1 wide input range
- 1500VDC I/O isolation
- Built-in remote ON/OFF control
- Built-in EMI filter
- Protections: Short circuit / Overload
- Cooling by free air convection
- Five-sided shield metal case
- 100% full load burn-in test
- Low cost / High reliability
- Modified models available: output 2.5V/3.3V
- 2 years warranty

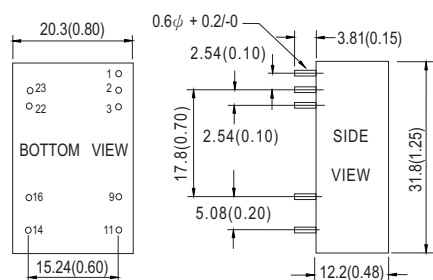


SPECIFICATION

ORDER NO.		SCW12A-05	SCW12B-05	SCW12C-05	SCW12A-12	SCW12B-12	SCW12C-12	SCW12A-15	SCW12B-15	SCW12C-15	
OUTPUT	DC VOLTAGE	5V			12V			15V			
	CURRENT RANGE	480 ~ 2400mA			200 ~ 1000mA			160 ~ 800mA			
	RATED POWER	12W									
	RIPPLE & NOISE (max.) <small>Note.2</small>	50mVp-p			60mVp-p			60mVp-p			
	LINE REGULATION <small>Note.3</small>	±0.5%									
	LOAD REGULATION <small>Note.4</small>	±0.5%									
	VOLTAGE ACCURACY	±2.0%									
	SWITCHING FREQUENCY	400KHz min.									
	EXTERNAL CAPACITANCE LOAD (max.)	1000uF			220uF			220uF			
INPUT	VOLTAGE RANGE	A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC									
	EFFICIENCY (Typ.)	82%	83%	84%	82%	83%	83%	82%	85%	83%	
	DC CURRENT	Full load	A: 1245mA B: 625mA C: 320mA								
		No load	A: 70mA B: 35mA C: 25mA								
	FILTER	Pi network									
	PROTECTION	Fuse recommended									
PROTECTION (Note. 5)	OVERLOAD	110 ~ 180% 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℃ (Refer to "Derating Curve")									
	WORKING HUMIDITY	20% ~ 90% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-40 ~ +105℃, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.05% / °C (0 ~ 50℃)									
	VIBRATION	10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes									
SAFETY	SAFETY STANDARDS	EAC TP TC 004 approved									
	WITHSTAND VOLTAGE	I/P-O/P: 1.5KVDC									
	ISOLATION RESISTANCE	I/P-O/P: 100M Ohms / 500VDC / 25℃ / 70% RH									
	ISOLATION CAPACITANCE	2200pF max.									
	EMC EMISSION	Compliance to EN55032 Class A, FCC part 15 Class A, 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	REMOTE CONTROL	Power ON: R.C. ~ -Vin > 4VDC or open ; Power OFF: R.C. ~ -Vin < 1VDC or short									
	MTBF	600Khrs min. MIL-HDBK-217F(25℃)									
	DIMENSION	31.8*20.3*12.2mm or 1.25**0.80**0.48" inch (L*W*H)									
	WEIGHT	18.5g									

■ Mechanical Specification

Unit:mm(inch)

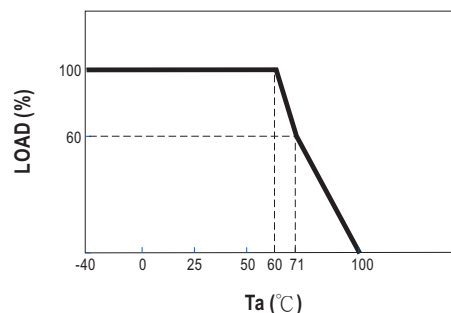


Pin Size is Tolerance $0.5 \pm 0.05\text{mm}$. Tolerance .X or .XX = $\pm 0.5\text{mm}$

■ Pin Configuration

Pin No.	Output
1	R.C.
2 & 3	-Vin
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 20% to 100% rated load.
- 5.Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.

Mouser Electronics

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MEAN WELL:

[SCW12C-15](#)