



### ■ Features :

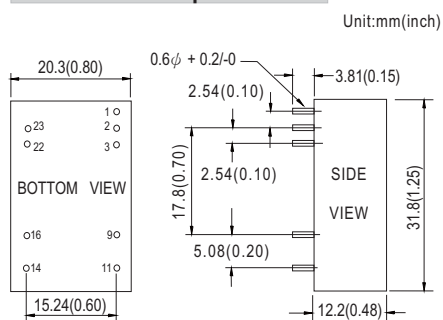
- 2:1 wide input range
- 1500VDC I/O isolation
- Built-in remote ON/OFF control
- Built-in EMI filter
- Protections: Short circuit / Overload
- Cooling by free air convection
- Five-sided shield metal case
- 100% full load burn-in test
- Low cost / High reliability
- Modified models available: output 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			12V			15V								
	CURRENT RANGE			200 ~ 1000mA			160 ~ 800mA								
	RATED POWER			12W											
	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			400KHz min.											
INPUT	EXTERNAL CAPACITANCE LOAD (max.)			1000uF			220uF								
	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°C (Refer to "Derating Curve")											
	WORKING HUMIDITY			20% ~ 90% RH non-condensing											
	STORAGE TEMP., HUMIDITY			-40 ~ +105°C, 10 ~ 95% RH											
	TEMP. COEFFICIENT			±0.05% / °C (0 ~ 50°C)											
	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°C / 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°C)											
	DIMENSION			31.8*20.3*12.2mm or 1.25**0.80**0.48" inch (L*W*H)											
	WEIGHT			18.5g											

### ■ Mechanical Specification

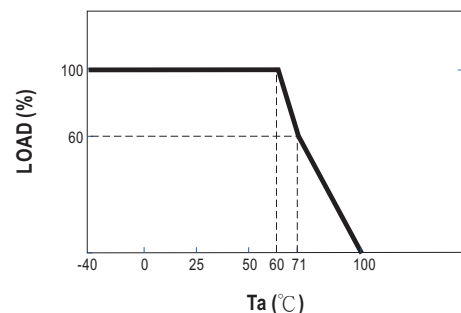


Pin Size is Tolerance 0.5±0.05mm, Tolerance .X or .XX= ±0.5mm

### ■ 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.