



## ■ Features :

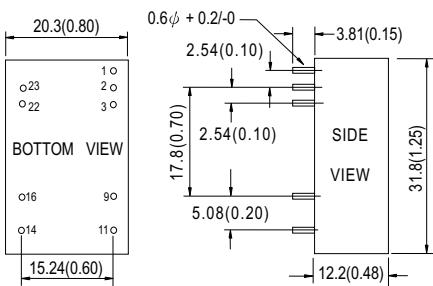
- 2:1 wide input range
- 1500VDC I/O isolation
- Built-in remote ON/OFF control
- Built-in EMI filter
- Protections: Short circuit / Overload
- Cooling by free air convection
- Five-sided shield metal case
- 100% full load burn-in test
- Low cost / High reliability
- Modified models available: output 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	<b>DC VOLTAGE</b>	5V		12V			15V		
	<b>CURRENT RANGE</b>	480 ~ 2400mA		200 ~ 1000mA			160 ~ 800mA		
	<b>RATED POWER</b>	12W							
	<b>RIPPLE &amp; NOISE (max.) Note.2</b>	50mVp-p		60mVp-p			60mVp-p		
	<b>LINE REGULATION Note.3</b>	±0.5%							
	<b>LOAD REGULATION Note.4</b>	±0.5%							
	<b>VOLTAGE ACCURACY</b>	±2.0%							
	<b>SWITCHING FREQUENCY</b>	400KHz min.							
INPUT	<b>VOLTAGE RANGE</b>	A: 9 ~ 18VDC	B: 18 ~ 36VDC	C: 36 ~ 72VDC					
	<b>EFFICIENCY (Typ.)</b>	82%	83%	84%	82%	83%	83%	82%	85%
	<b>DC CURRENT</b>	Full load	A: 1245mA	B: 625mA	C: 320mA				
		No load	A: 70mA	B: 35mA	C: 25mA				
PROTECTION (Note. 5)	<b>FILTER</b>	Pi network							
	<b>PROTECTION</b>	Fuse recommended							
	<b>OVERLOAD</b>	110 ~ 180% rated output power							
		Protection type : Hiccup mode, recovers automatically after fault condition is removed							
ENVIRONMENT	<b>SHORT CIRCUIT</b>	All output equipped with short circuit							
		Protection type : Hiccup mode, recovers automatically after fault condition is removed							
	<b>WORKING TEMP.</b>	-25 ~ +71°C (Refer to output load derating curve)							
	<b>WORKING HUMIDITY</b>	20% ~ 90% RH non-condensing							
	<b>STORAGE TEMP., HUMIDITY</b>	-25 ~ +105°C, 10 ~ 95% RH							
SAFETY	<b>TEMP. COEFFICIENT</b>	±0.05% / °C (0 ~ 50°C)							
	<b>VIBRATION</b>	10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes							
	<b>WITHSTAND VOLTAGE</b>	I/P-O/P: 1.5KVDC							
	<b>ISOLATION RESISTANCE</b>	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH							
	<b>ISOLATION CAPACITANCE</b>	2200pF max.							
OTHERS	<b>EMI CONDUCTION &amp; RADIATION</b>	Compliance to EN55022 Class A, FCC part 15 Class A							
	<b>EMS IMMUNITY</b>	Compliance to EN61000-4-2,3,4,5,6,8 light industry level, criteria A							
	<b>REMOTE CONTROL</b>	Power ON: R.C. ~ -Vin > 4VDC or open ; Power OFF: R.C. ~ -Vin < 1VDC or short							
	<b>MTBF</b>	600Khrs min. MIL-HDBK-217F(25°C)							
	<b>DIMENSION</b>	31.8*20.3*12.2mm or 1.25" * 0.80" * 0.48" inch (L*W*H)							
	<b>WEIGHT</b>	18.5g							

## ■ Mechanical Specification

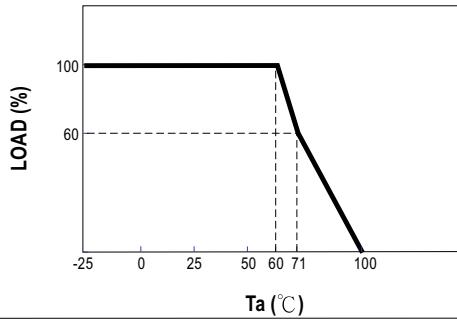
Unit:mm(inch)



## ■ 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**

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