



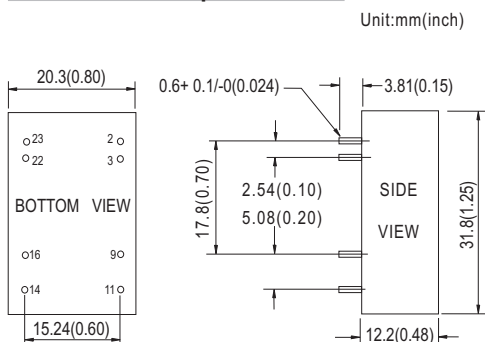
- Features :
  - 2:1 wide input range
  - 4:1 wide input range(option)
  - 1000VDC I/O isolation
  - 3000VDC I/O isolation(option)
  - Built-in EMI filter
  - Protections: Short circuit / Overload
  - Cooling by free air convection
  - Five-sided shield metal case
  - 100% burn-in test
  - Low cost /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



## SPECIFICATION

ORDER NO.	SCW05A-05	SCW05B-05	SCW05C-05	SCW05A-09	SCW05B-09	SCW05C-09	SCW05A-12	SCW05B-12	SCW05C-12	SCW05A-15	SCW05B-15	SCW05C-15																											
<b>OUTPUT</b>	<b>DC VOLTAGE</b>			5V			9V			12V			15V																										
	<b>CURRENT RANGE</b>			200 ~ 1000mA			111 ~ 556mA			94 ~ 470mA			80 ~ 400mA																										
	<b>RATED POWER</b>			5W			5W			5.6W			6W																										
	<b>RIPPLE &amp; NOISE (max.)</b> Note.2			50mVp-p			60mVp-p			60mVp-p			60mVp-p																										
	<b>LINE REGULATION</b> Note.3			±0.5%			±0.5%			±0.5%			±0.5%																										
	<b>LOAD REGULATION</b> Note.4			±0.5%			±0.5%			±0.5%			±0.5%																										
	<b>VOLTAGE ACCURACY</b>			±2.0%			±2.0%			±2.0%			±2.0%																										
<b>SWITCHING FREQUENCY</b>			50KHz min.			50KHz min.			50KHz min.			50KHz min.																											
<b>INPUT</b>	<b>VOLTAGE RANGE</b>			A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC			A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC			A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC			A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC																										
	<b>EFFICIENCY (Typ.)</b>			75%			77%			77%			80%			81%			83%			80%			82%			83%			81%			83%			81%		
	<b>DC CURRENT</b>			Full load			A: 617mA B: 301mA C: 147mA			Full load			A: 617mA B: 301mA C: 147mA			Full load			A: 617mA B: 301mA C: 147mA			Full load			A: 617mA B: 301mA C: 147mA			Full load			A: 617mA B: 301mA C: 147mA			Full load			A: 617mA B: 301mA C: 147mA		
	<b>DC CURRENT</b>			No load			A: 41mA B: 22mA C: 12mA			No load			A: 41mA B: 22mA C: 12mA			No load			A: 41mA B: 22mA C: 12mA			No load			A: 41mA B: 22mA C: 12mA			No load			A: 41mA B: 22mA C: 12mA			No load			A: 41mA B: 22mA C: 12mA		
	<b>FILTER</b>			Pi network			Pi network			Pi network			Pi network			Pi network			Pi network			Pi network			Pi network			Pi network			Pi network			Pi network			Pi network		
<b>PROTECTION</b>			Fuse recommended			Fuse recommended			Fuse recommended			Fuse recommended			Fuse recommended			Fuse recommended			Fuse recommended			Fuse recommended			Fuse recommended			Fuse recommended			Fuse recommended			Fuse recommended			
<b>PROTECTION (Note. 5)</b>	<b>OVERLOAD</b>			150 ~ 250% rated output power			150 ~ 250% rated output power			150 ~ 250% rated output power			150 ~ 250% rated output power			150 ~ 250% rated output power			150 ~ 250% rated output power			150 ~ 250% rated output power			150 ~ 250% rated output power			150 ~ 250% rated output power			150 ~ 250% rated output power			150 ~ 250% rated output power					
	<b>SHORT CIRCUIT</b>			All output equipped with short circuit			All output equipped with short circuit			All output equipped with short circuit			All output equipped with short circuit			All output equipped with short circuit			All output equipped with short circuit			All output equipped with short circuit			All output equipped with short circuit			All output equipped with short circuit			All output equipped with short circuit			All output equipped with short circuit			All output equipped with short circuit		
<b>ENVIRONMENT</b>	<b>WORKING TEMP.</b>			-40 ~ +71°C (Refer to output load derating curve)			-40 ~ +71°C (Refer to output load derating curve)			-40 ~ +71°C (Refer to output load derating curve)			-40 ~ +71°C (Refer to output load derating curve)			-40 ~ +71°C (Refer to output load derating curve)			-40 ~ +71°C (Refer to output load derating curve)			-40 ~ +71°C (Refer to output load derating curve)			-40 ~ +71°C (Refer to output load derating curve)			-40 ~ +71°C (Refer to output load derating curve)			-40 ~ +71°C (Refer to output load derating curve)			-40 ~ +71°C (Refer to output load derating curve)					
	<b>WORKING HUMIDITY</b>			20% ~ 90% RH non-condensing			20% ~ 90% RH non-condensing			20% ~ 90% RH non-condensing			20% ~ 90% RH non-condensing			20% ~ 90% RH non-condensing			20% ~ 90% RH non-condensing			20% ~ 90% RH non-condensing			20% ~ 90% RH non-condensing			20% ~ 90% RH non-condensing			20% ~ 90% RH non-condensing			20% ~ 90% RH non-condensing					
	<b>STORAGE TEMP., HUMIDITY</b>			-40 ~ +105°C, 10 ~ 95% RH			-40 ~ +105°C, 10 ~ 95% RH			-40 ~ +105°C, 10 ~ 95% RH			-40 ~ +105°C, 10 ~ 95% RH			-40 ~ +105°C, 10 ~ 95% RH			-40 ~ +105°C, 10 ~ 95% RH			-40 ~ +105°C, 10 ~ 95% RH			-40 ~ +105°C, 10 ~ 95% RH			-40 ~ +105°C, 10 ~ 95% RH			-40 ~ +105°C, 10 ~ 95% RH			-40 ~ +105°C, 10 ~ 95% RH					
	<b>TEMP. COEFFICIENT</b>			±0.03% / °C (0 ~ 50°C)			±0.03% / °C (0 ~ 50°C)			±0.03% / °C (0 ~ 50°C)			±0.03% / °C (0 ~ 50°C)			±0.03% / °C (0 ~ 50°C)			±0.03% / °C (0 ~ 50°C)			±0.03% / °C (0 ~ 50°C)			±0.03% / °C (0 ~ 50°C)			±0.03% / °C (0 ~ 50°C)			±0.03% / °C (0 ~ 50°C)								
	<b>VIBRATION</b>			10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes			10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes			10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes			10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes			10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes			10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes			10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes			10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes			10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes			10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes								
<b>SAFETY &amp; EMC</b>	<b>WITHSTAND VOLTAGE</b>			I/P-O/P:1KVDC			I/P-O/P:1KVDC			I/P-O/P:1KVDC			I/P-O/P:1KVDC			I/P-O/P:1KVDC			I/P-O/P:1KVDC			I/P-O/P:1KVDC			I/P-O/P:1KVDC			I/P-O/P:1KVDC			I/P-O/P:1KVDC			I/P-O/P:1KVDC					
	<b>ISOLATION RESISTANCE</b>			I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH			I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH			I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH			I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH			I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH			I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH			I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH			I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH			I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH			I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH								
	<b>ISOLATION CAPACITANCE</b>			80pF max.			80pF max.			80pF max.			80pF max.			80pF max.			80pF max.			80pF max.			80pF max.			80pF max.			80pF max.								
	<b>EMC EMISSION</b>			Compliance to EN55022 Class B, FCC part 15 Class B			Compliance to EN55022 Class B, FCC part 15 Class B			Compliance to EN55022 Class B, FCC part 15 Class B			Compliance to EN55022 Class B, FCC part 15 Class B			Compliance to EN55022 Class B, FCC part 15 Class B			Compliance to EN55022 Class B, FCC part 15 Class B			Compliance to EN55022 Class B, FCC part 15 Class B			Compliance to EN55022 Class B, FCC part 15 Class B			Compliance to EN55022 Class B, FCC part 15 Class B			Compliance to EN55022 Class B, FCC part 15 Class B								
	<b>EMC IMMUNITY</b>			Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A			Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A			Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A			Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A			Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A			Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A			Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A			Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A			Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A											
<b>OTHERS</b>	<b>MTBF</b>			900khrs min. MIL-HDBK-217F(25°C)			900khrs min. MIL-HDBK-217F(25°C)			900khrs min. MIL-HDBK-217F(25°C)			900khrs min. MIL-HDBK-217F(25°C)			900khrs min. MIL-HDBK-217F(25°C)			900khrs min. MIL-HDBK-217F(25°C)			900khrs min. MIL-HDBK-217F(25°C)			900khrs min. MIL-HDBK-217F(25°C)			900khrs min. MIL-HDBK-217F(25°C)			900khrs 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)			31.8*20.3*12.2mm or 1.25"*0.80"*0.48" inch (L*W*H)			31.8*20.3*12.2mm or 1.25"*0.80"*0.48" inch (L*W*H)			31.8*20.3*12.2mm or 1.25"*0.80"*0.48" inch (L*W*H)			31.8*20.3*12.2mm or 1.25"*0.80"*0.48" inch (L*W*H)			31.8*20.3*12.2mm or 1.25"*0.80"*0.48" inch (L*W*H)			31.8*20.3*12.2mm or 1.25"*0.80"*0.48" inch (L*W*H)			31.8*20.3*12.2mm or 1.25"*0.80"*0.48" inch (L*W*H)			31.8*20.3*12.2mm or 1.25"*0.80"*0.48" inch (L*W*H)											
	<b>WEIGHT</b>			15g			15g			15g			15g			15g			15g			15g			15g			15g			15g								

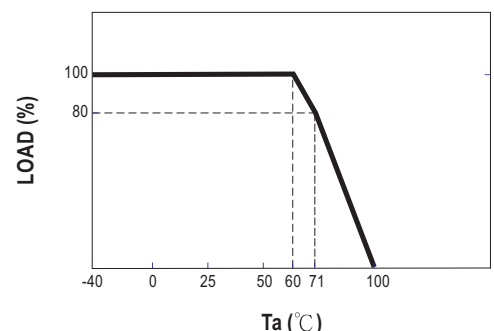
### Mechanical Specification



### Pin Configuration

Pin No.	Output
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.