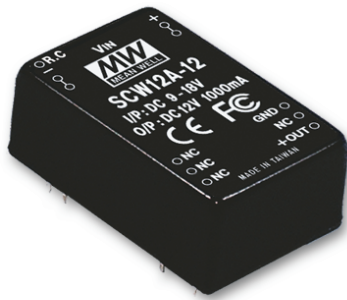




■ Features :

- 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

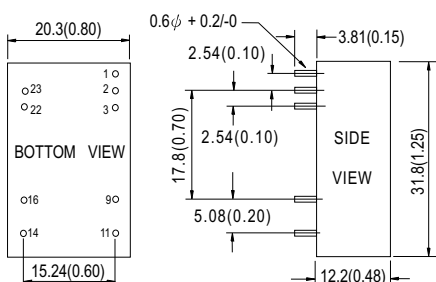


SPECIFICATION

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.) Note.2	50mVp-p			60mVp-p			60mVp-p			
	LINE REGULATION Note.3	±0.5%									
	LOAD REGULATION Note.4	±0.5%									
	VOLTAGE ACCURACY	±2.0%									
	SWITCHING FREQUENCY	400KHz min.									
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.	-25 ~ +71℃ (Refer to output load derating curve)									
	WORKING HUMIDITY	20% ~ 90% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-25 ~ +105℃, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.05% / ℃ (0 ~ 50℃)									
	VIBRATION	10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes									
SAFETY	WITHSTAND VOLTAGE	I/P-O/P:1.5KVDC									
	ISOLATION RESISTANCE	I/P-O/P: 100M Ohms / 500VDC / 25℃ / 70% RH									
	ISOLATION CAPACITANCE	2200pF max.									
	EMI CONDUCTION & RADIATION	Compliance to EN55022 Class A, FCC part 15 Class A									
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8 light industry level, criteria A									
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

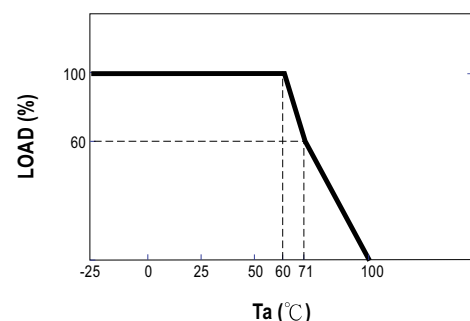
Unit:mm(inch)



■ Pin 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.

Model : SCW12B-05 12W
+5V / 480~2400mA

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	OUTPUT VOLTAGE ACCURACY	-2%~+2% (Max.)	I/P: 24VDC O/P:50% LOAD Ta:25℃	+0.88%	P
2	RIPPLE & NOISE	50mVp-p (Max.)	I/P:24VDC O/P:FULL LOAD Ta:25℃	16mVp-p	P
3	LINE REGULATION	-0.5%~+0.5% (Max.)	I/P:18VDC ~36VDC O/P:FULL LOAD Ta:25℃	-0.02%~+0.02%	P
4	LOAD REGULATION	-0.5%~+0.5% (Max.)	I/P:24VDC O/P: MIN ~FULL LOAD Ta:25℃	-0.12%~+0.08%	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	INPUT VOLTAGE RANGE	18VDC~36VDC	I/P:TESTING O/P:FULL LOAD Ta:25℃	16.4VDC~36VDC	P
2	EFFICIENCY	83% (Typ.)	I/P:24VDC O/P:FULL LOAD Ta:25℃	88.02%	P
3	INPUT CURRENT	625mA FULL LOAD (Max.) 35mA NO LOAD (Typ.)	I/P:24VDC O/P:NO / FULL LOAD Ta:25℃	572mA / FULL LOAD 27mA / NO LOAD	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	110%~180% (Typ.)	I/P:24VDC O/P:TESTING Ta:25℃	143% HICCUP MODE AUTO-RECOVER	P
2	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P:36VDC O/P:SHORT Ta:25℃	NO DAMAGE HICCUP MODE AUTO-RECOVER	P

CONTROL FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	REMOTE CONTROL	POWER ON R.C ~ -Vin > 4VDC OR OPEN POWER OFF R.C ~ -Vin < 1VDC OR SHORT	I/P:24VDC O/P:FULL LOAD Ta:25℃	POWER ON : > 2.5VDC OR OPEN POWER OFF : < 2.5VDC OR SHORT	P

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	WITHSTAND VOLTAGE	I/P-O/P:1500 VDC/min	I/P-O/P:1500 VDC/min Ta:25°C	I/P-O/P: 0.002mA NO DAMAGE	P
2	ISOLATION RESISTANCE	I/P-O/P:500VDC>100MΩ	I/P-O/P:500 VDC Ta:25°C	I/P-O/P>100MΩ NO DAMAGE	P

E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	RADIATION	EN55022 CLASS A	I/P:24VDC O/P:FULL LOAD Ta:25°C	PASS	P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2009.3.13	SAMPLE (0818R)	PASS	PETER	VINCENT ZENG