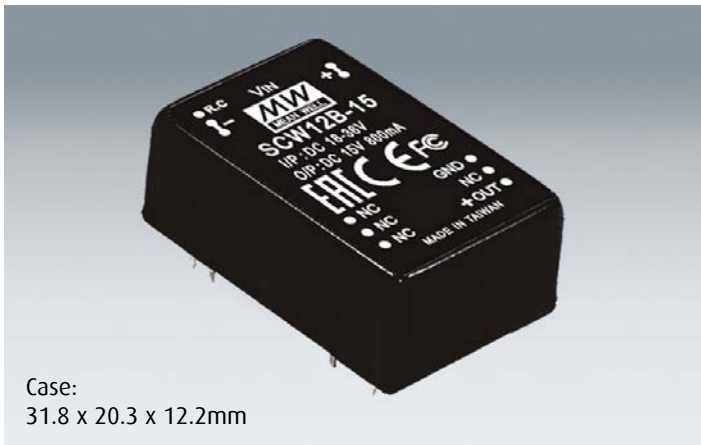


SCW12 Series

12W DC-DC Regulated Single Output Converter Power Supply



Case:
31.8 x 20.3 x 12.2mm

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

INPUT	Voltage Range	A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC									
	DC Current	Full Load:	A: 1245mA B: 625mA C: 320mA								
		No Load:	A: 70mA B: 35mA C: 25mA								
	Filter	Pi network									
Protection	Fuse recommended										
OUTPUT	MODEL No.	SCW12A-05	SCW12B-05	SCW12C-05	SCW12A-12	SCW12B-12	SCW08C-12	SCW12A-15	SCW12B-15	SCW12C-15	
	DC Voltage	5V	5V	5V	12V	12V	12V	15V	15V	15V	
	Current Range	480~2400mA	480~2400mA	480~2400mA	200~1000mA	200~1000mA	200~1000mA	160 ~ 800mA	160 ~ 800mA	160 ~ 800mA	
	Rated Power	12W	12W	12W	12W	12W	12W	12W	12W	12W	
	R&N	50mVp-p	50mVp-p	50mVp-p	60mVp-p	60mVp-p	60mVp-p	60mVp-p	60mVp-p	60mVp-p	
	Efficiency	82%	83%	84%	82%	83%	83%	82%	85%	83%	
	Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	Load Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	Voltage Accuracy	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	
	Switching Frequency	400KHz min.									
	External Capacitance (load max.)	1000uF	1000uF	1000uF	220uF	220uF	220uF	220uF	220uF	220uF	
	PROTECTION	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 Temperature	-40 ~ +71°C (Please refer to 'Derating Curve' section)									
	Working Humidity	20 ~ 90% RH non-condensing									
	Storage Temperature	-40 ~ +105°C, 10 ~ 95% RH non-condensing									
	Temp Coefficient	±0.05%/°C (0 ~ 50°C)									
	Vibration	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes									
SAFETY & EMC	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 B, FCC part 15 Class A, EAC TP TC 020									
OTHERS	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A, EAC TP TC 020									
	Remote Control	Power ON: R.C. ~ -Vin > 4VDC or open ; Power OFF: R.C. ~ -Vin < 1VDC or short									
	M.T.B.F.	600K hrs min. MIL-HDBK-217F (25°C)									
	Weight	18.5g									

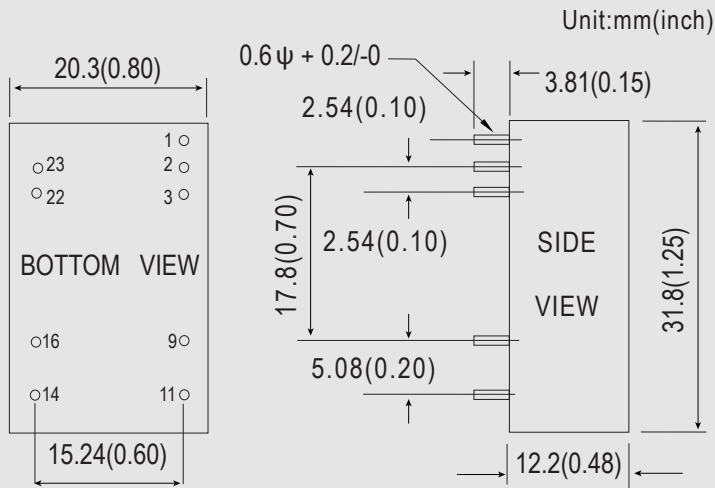
1. All parameters NOT specially mentioned are measured at 24VDC input, rated load and 25°C of ambient temperature.
2. Ripple and Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with 0.1uF & 47uF parallel capacitor.
3. Line regulation is measured from low line to high line at rated load.
4. Load regulation is measured from 20% to 100% at rated load.
5. Please prevent the converter in overload or short circuit condition for more than 30 seconds.

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Mechanical Diagram



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

