



EHI C €

Features

- DIP24 package with industry standard pinout
- 2:1 wide input range
- Operating temperature range -40 ~ +80°C
- · No minimum load required
- Comply to EN55032 radiated Class A without additional components
- High efficiency up to 89%
- · Protections: Short circuit (Continuous) / Overload
- 1.5KVDC I/O isolation
- · Remote ON/OFF control
- 3 years warranty











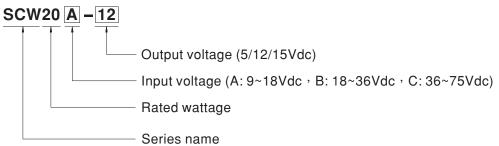
Applications

- Telecom/datacom system
- · Wireless network
- · Industrial control facility
- Instrument
- Analyzer
- Detector
- · Data switch

Description

SCW20 series is 20W isolated and regulated module type DC-DC converter with DIP24 package. It features international standard pins, a high efficiency up to 89%, wide working temperature range -40~+80°C , 1.5KVDC I/P-O/P isolation voltage, Compliance to EN55032 radiated Class A without additional components, continuous-mode short circuit protection, etc. The additional components, models account for different input voltage 9~18V, 18~36V and 36~75V 2:1 wide input range, and various output voltage, 5V/12V/15V for single output, which are suitable for all kinds of systems, Such as industrial control, telecommunication field, distributed power architecture, and so on.

■ Model Encoding





MODEL SELECTION TABLE INPUT OUTPUT EFFICIENCY CAPACITOR LOAD ORDER NO. **INPUT CURRENT** OUTPUT **OUTPUT INPUT VOLTAGE** (TYP.) (MAX.) **VOLTAGE CURRENT** (RANGE) NO LOAD **FULL LOAD** SCW20A-05 110mA 1938mA 5V 4000mA 86% 1000μF Normal 12V SCW20A-12 30mA 1938mA 12V 1666mA 86% $220 \mu F$ $(9 \sim 18V)$ SCW20A-15 87% 25mA 1915mA 15V 1333mA 220µF SCW20B-05 60mA 969mA 5V 4000mA 86% $1000 \mu F$ Normal 24V SCW20B-12 25mA 957mA 12V 1666mA 87% 220µF $(18 \sim 36V)$ SCW20B-15 25mA 957mA 15V 1333mA 88% 220µF SCW20C-05 45mA 484mA 5V 4000mA 86% 1000μF Normal 48V SCW20C-12 479mA 12V 1666mA 87% 15mA $220 \mu F$ $(36 \sim 75V)$ SCW20C-15 15mA 479mA 15V 1333mA 89% $220 \mu \text{F}$

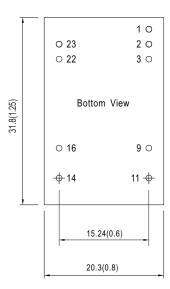


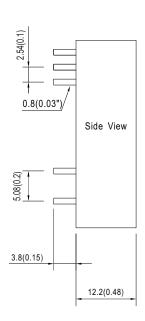
SPECIFICAT	ΓΙΟΝ						
	VOLTAGE RANGE	A: 9~18Vdc , B: 18~36Vdc , C: 36~75Vdc					
INPUT	FILTER	Pi type					
	PROTECTION	Fuse recommended. 12Vin models: 4A Slow-Blow Type, 24Vin models: 2A Slow-Blow Type, 48Vin models: 1A Slow-Blow Type					
	INTERNAL POWER DISSIPATION						
ОИТРИТ	VOLTAGE ACCURACY	±2%					
	RATED POWER	20W					
	RIPPLE & NOISE Note.2	80mVp-p					
	LINE REGULATION Note.3						
	LOAD REGULATION Note.4						
	SWITCHING FREQUENCY (Min.)) 400KHz					
PROTECTION	SHORT CIRCUIT	Protection type : Continuous, automatic recovery					
		120 ~ 190% rated output power					
		Protection type : Recovers automatically after fault condition is removed					
FUNCTION	REMOTE CONTROL	Power ON: R.C. ~ -Vin > 2.5VDC or open; Power OFF: R.C. ~ -Vin < 0.8VDC or short					
ENVIRONMENT	COOLING	Free-air convection					
	WORKING TEMP.	-40 ~ +80°C (Refer to "Derating Curve")					
	CASE TEMPERATURE	+110°C max.					
	WORKING HUMIDITY	20% ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +105°C, 10 ~ 95% RH non-condensing					
	TEMP. COEFFICIENT	0.03% / °C (0 ~ 85°C)					
	SOLDERING TEMPERATURE	1.5mm from case of 1 ~ 3sec./260°C max.					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
SAFETY & EMC (Note.5)	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 (Typ.)						
		Parameter	Standard	Test Level / Note			
	EMC EMISSION	Conducted	EN55032(CISPR32)	N/A			
		Radiated	EN55032(CISPR32)	Class A			
	EMC IMMUNITY	Parameter	Standard	Test Level / Note			
		ESD	EN61000-4-2	Level 2, ±8KV air, ±4KV contact			
		Radiated Susceptibility	EN61000-4-3	Level 2, 3V/m			
		EFT/Burest	EN61000-4-4	Level 1, 0.5KV			
		Surge	EN61000-4-5	Level 1, 0.5KV Line-Line			
		Conducted	EN61000-4-6	Level 2, 3V(e.m.f.)			
		Magnetic Field	EN61000-4-8	Level 2, 3A/m			
OTHERS	MTBF	224Khrs MIL-HDBK-217F(25°C)					
	DIMENSION (L*W*H)	31.8*20.3*12.2mm (1.25*0.8*0.48 inch)					
	CASE MATERIAL	Five-sided shield metal case					
	PACKING	18.5g					
NOTE	2.Ripple & noise are mea 3.Line regulation is meas 4.Load regulation is meas 5.The final equipment mu	All parameters are specified at normal input(A:12Vdc, B:24Vdc, C:48Vdc), rated load, 25°C 70% RH ambient. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1μf & 47μf capacitor. Line regulation is measured from low line to high line at rated load. Load regulation is measured from 20% to 100% rated load. The final equipment must be re-confirm that it still meet EMC directives. For guidance on how to perform these EMC tests, please efer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)					



■ Mechanical Specification

- $\begin{array}{l} \bullet \text{ All dimensions in mm(inch)} \\ \bullet \text{ Tolerance:} x.x\pm0.5\text{mm}(x.xx\pm0.02") \\ x.xx\pm0.25\text{mm}(x.xxx\pm0.010") \\ \bullet \text{ Pin size is:} 0.8\pm0.05\text{mm} \ (0.03"\pm0.002") \end{array}$

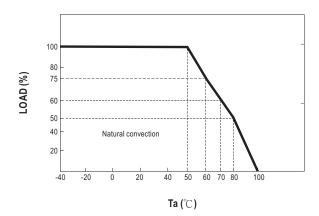




■ Pin Assignment

Pin No.	Output		
1	Remote ON/OFF		
2,3	-Vin		
9	N.C.		
11	N.C.		
14	+Vout		
16	-Vout		
22,23	+Vin		

■ Derating Curve

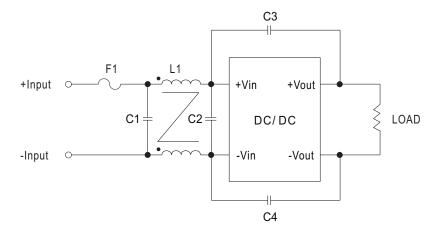




■ Recommended Filter for EN55032 Class B Compliance

The components used in the above figure, together with the manufacturer's part numbers for these components, are as follows:

	C1	C2	C3	C4	L1
SCW20 12Vin	3.3µF/50V 1812 MLCC	N/A	1000pF/2KV MLCC	1000pF/2KV MLCC	325µH Common Choke
SCW20 24Vin	4.7μF/50V 1812 MLCC	N/A	1000pF/2KV MLCC	1000pF/2KV MLCC	325µH Common Choke
SCW20 48Vin	2.2µF/100V 1812 MLCC	2.2µF/100V 1812 MLCC	1000pF/2KV MLCC	1000pF/2KV MLCC	325µH Common Choke



■ Installation Manual

Please refer to: http://www.meanwell.com/manual.html

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