



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



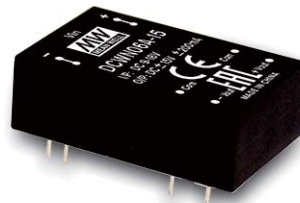
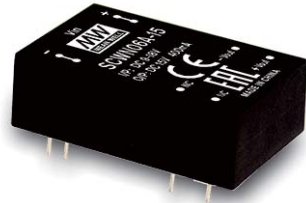
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■ Features

- DIP24 package with industry standard pinout
- 2:1 wide input range
- Operating temperature range -40 ~ +90°C
- No minimum load required
- Comply to EN55032 radiated Class A without additional components
- High efficiency up to 87%
- Protections: Short circuit (Continuous) / Overload / Input under voltage
- 3KVDC I/O isolation
- 3 years warranty

■ Applications

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

■ Description

SCWN06 and DCWN06 series are 6W isolated and regulated module type DC-DC converter with DIP24 package. It features international standard pins, a high efficiency up to 87%, wide working temperature range -40~+90°C, 3KVDC 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 36~72V 2:1 wide input range, and various output voltage, 3.3V/5V/12V/15V for single output and ±5V/±12V/±15V for dual outputs, which are suitable for all kinds of systems, such as industrial control, telecommunication field, distributed power architecture, and so on.

■ Model Encoding

S **CWN06** **A** - **12**

Output voltage (3.3/5/12/15Vdc , ±5/±12/±15Vdc)

Input voltage (A: 9~18Vdc , B: 18~36Vdc , C: 36~72Vdc)

Rated wattage

Series name { S:Single output
D: Dual output



MODEL SELECTION TABLE							
ORDER NO.	INPUT			OUTPUT		EFFICIENCY (TYP.)	CAPACITOR LOAD (MAX.)
	INPUT VOLTAGE (RANGE)	INPUT CURRENT		OUTPUT VOLTAGE	OUTPUT CURRENT		
		NO LOAD	FULL LOAD				
SCWN06A-03	Normal 12V (9 ~ 18V)	5mA	429mA	3.3V	1200mA	77%	4700μF
SCWN06A-05		5mA	514mA	5V	1000mA	81%	4700μF
SCWN06A-12		10mA	600mA	12V	500mA	83%	4700μF
SCWN06A-15		15mA	600mA	15V	400mA	84%	4700μF
DCWN06A-05		10mA	514mA	±5V	±0 ~ 500mA	80%	*2200μF
DCWN06A-12		12mA	600mA	±12V	±0 ~ 250mA	83%	*2200μF
DCWN06A-15		18mA	600mA	±15V	±0 ~ 200mA	84%	*2200μF
SCWN06B-03	Normal 24V (18 ~ 36V)	4mA	209mA	3.3V	1200mA	79%	4700μF
SCWN06B-05		5mA	251mA	5V	1000mA	82%	4700μF
SCWN06B-12		7mA	291mA	12V	500mA	86%	4700μF
SCWN06B-15		8mA	291mA	15V	400mA	86%	4700μF
DCWN06B-05		8mA	254mA	±5V	±0 ~ 500mA	82%	*2200μF
DCWN06B-12		10mA	291mA	±12V	±0 ~ 250mA	86%	*2200μF
DCWN06B-15		10mA	291mA	±15V	±0 ~ 200mA	85%	*2200μF
SCWN06C-03	Normal 48V (36 ~ 72V)	2mA	104mA	3.3V	1200mA	79%	4700μF
SCWN06C-05		3mA	126mA	5V	1000mA	83%	4700μF
SCWN06C-12		6mA	148mA	12V	500mA	86%	4700μF
SCWN06C-15		5mA	148mA	15V	400mA	86%	4700μF
DCWN06C-05		8mA	126mA	±5V	±0 ~ 500mA	83%	*2200μF
DCWN06C-12		8mA	148mA	±12V	±0 ~ 250mA	85%	*2200μF
DCWN06C-15		10mA	144mA	±15V	±0 ~ 200mA	87%	*2200μF

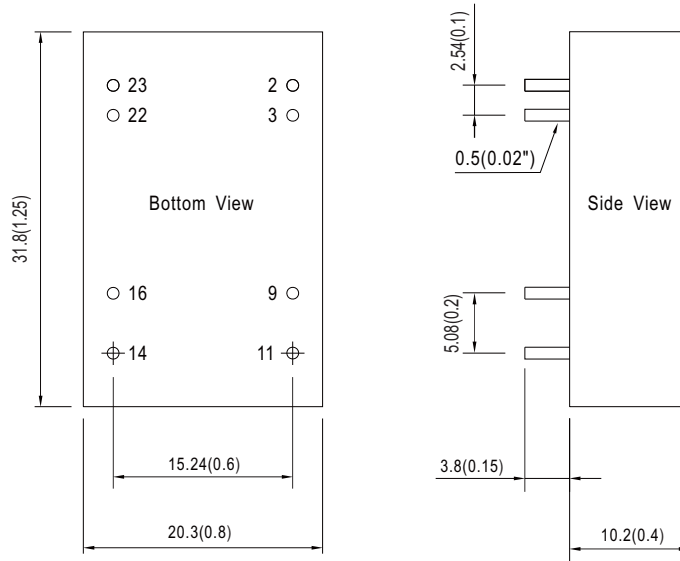
* For each output



SPECIFICATION				
INPUT	VOLTAGE RANGE	A: 9~18Vdc , B: 18~36Vdc , C: 36~72Vdc		
	SURGE VOLTAGE (100ms max.)	12Vin models : 25Vdc ; 24Vin models : 50Vdc ; 48Vin models : 100Vdc		
	FILTER	Pi type		
	PROTECTION (Typ.)	Fuse recommended. 12Vin models: 1.6A Fast-Acting Type, 24Vin models: 1A Fast-Acting Type, 48Vin models: 0.5A Fast-Acting Type		
	INTERNAL POWER DISSIPATION	500mW		
OUTPUT	VOLTAGE ACCURACY	± 1.5%		
	RATED POWER	6W		
	RIPPLE & NOISE Note.2	50mVp-p		
	LINE REGULATION Note.3	± 0.5%		
	LOAD REGULATION Note.4	Single output models: ± 0.5%, Dual output models: ± 1%		
	SWITCHING FREQUENCY (Min.)	100KHz		
PROTECTION	SHORT CIRCUIT	Protection type : Continuous, automatic recovery		
	OVERLOAD	120 ~ 250% rated output power		
		Protection type : Recovers automatically after fault condition is removed		
	UNDER VOLTAGE LOCKOUT	Start-up voltage	12Vin: 8.8Vdc, 24Vin: 17Vdc, 48Vin: 34Vdc	
Shutdown voltage		12Vin: 8Vdc, 24Vin: 16Vdc, 48Vin: 31Vdc		
ENVIRONMENT	COOLING	Free-air convection		
	WORKING TEMP.	-40 ~ +90°C (Refer to "Derating Curve")		
	CASE TEMPERATURE	+100°C max.		
	WORKING HUMIDITY	20% ~ 90% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +100°C, 10 ~ 95% RH non-condensing		
	TEMP. COEFFICIENT	0.03% / °C (0 ~ 90°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:3KVDC		
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH		
	ISOLATION CAPACITANCE (Typ.)	250pF		
	EMC EMISSION	Parameter	Standard	Test Level / Note
		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 (Typ.)	1800Khrs MIL-HDBK-217F(25°C)		
	DIMENSION (L*W*H)	31.8*20.3*10.2mm (1.25*0.8*0.4 inch)		
	CASE MATERIAL	Non-Conductive black plastic (UL 94V-0 rated)		
	PACKING	12.5g		
NOTE	<p>1.All parameters are specified at normal input(A:12Vdc, B:24Vdc, C:48Vdc), rated load, 25°C 70% RH ambient.</p> <p>2.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1µf & 47µf capacitor.</p> <p>3.Line regulation is measured from low line to high line at rated load.</p> <p>4.Load regulation is measured from 10% to 100% rated load for SCWN06, 25% to 100% rated load for DCWN06.</p> <p>5.The final equipment must be re-confirm that it still meet EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."(as available on http://www.meanwell.com)</p>			

Mechanical Specification

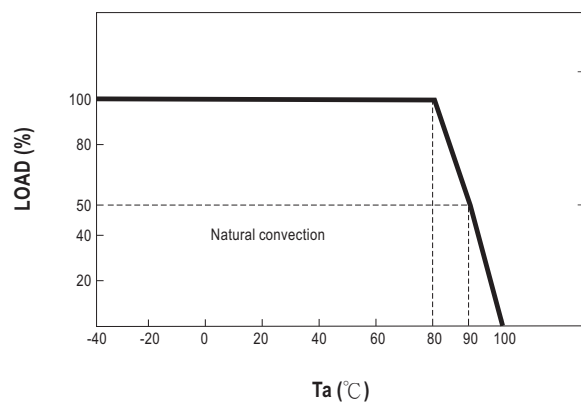
- All dimensions in mm (inch)
- Tolerance: $x.x \pm 0.5\text{mm}$ ($x.xx \pm 0.02''$)
 $x.xx \pm 0.25\text{mm}$ ($x.xxx \pm 0.010''$)
- Pin size is: $0.5 \pm 0.05\text{mm}$ ($0.02'' \pm 0.002''$)



Plug Assignment

Pin-Out		
Pin No.	SCWN06 (Single output)	DCWN06 (Dual output)
2,3	-Vin	-Vin
9	N.C.	Common
11	N.C.	-Vout
14	+Vout	+Vout
16	-Vout	Common
22,23	+Vin	+Vin

Derating Curve



Installation Manual

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