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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 BS EN/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

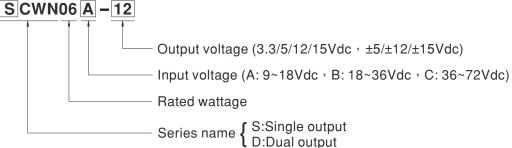
■ GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

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 BS EN/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



SCWN06 & DCWN06 series

MODEL SELE	ECTION TABLE						
ORDER NO.	INPUT			OUTPUT			
	INPUT VOLTAGE (RANGE)	INPUT CURRENT		OUTPUT	OUTPUT	EFFICIENCY (TYP.)	CAPACITOR LOAD (MAX.)
		NO LOAD	FULL LOAD	VOLTAGE	CURRENT	, ,	(,
SCWN06A-03		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	Normal 12V (9 ~ 18V)	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		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	Normal 24V (18 ~ 36V)	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		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	Normal 48V (36 ~ 72V)	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



6W DIP Package DC-DC Regulated Converter

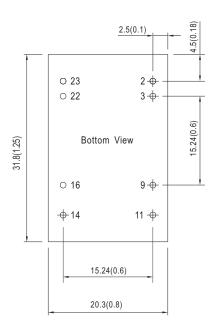
SCWN06 & DCWN06 series

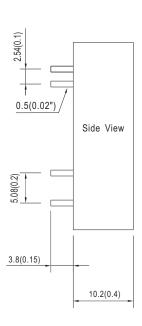
SPECIFICAT	TION								
	VOLTAGE RANGE	A: 9~18Vdc , B: 18~36Vdc , C: 36~72Vdc							
INPUT	SURGE VOLTAGE (100ms max.)	12Vin models : 25Vdc ; 24Vin models : 50Vdc ; 48Vin models : 100Vdc							
	FILTER	Pitype							
	PROTECTION (Typ.)	Fuse recommended. 12Vin models: 1.6A Fast-Acting Type, 24Vin models: 1A Fast-Acting Type, 48Vin models: 0.5A Fast-Acting Type							
	INTERNAL POWER DISSIPATION	500mW							
	VOLTAGE ACCURACY	±1.5%							
OUTPUT	RATED POWER	6W							
	RIPPLE & NOISE Note.2	50mVp-p							
	LINE REGULATION Note.3	±0.5%							
	LOAD REGULATION Note.4	Single output models: $\pm 0.5\%$, Dual output models: $\pm 1\%$							
	SWITCHING FREQUENCY (Min.)	100KHz							
	SHORT CIRCUIT	Protection type : Continuous, automatic recovery							
	OVERLOAD	120 ~ 250% rated output power							
PROTECTION		Protection type : Recovers automatically after fault condition is removed							
	UNDER VOLTAGE LOCKOUT	Start-up voltage	12Vin: 8.8V	dc, 24Vin: 17Vdc, 48Vin: 34V	/dc				
		Shutdown voltage	12Vin: 8Vdd	c, 24Vin: 16Vdc, 48Vin: 31\	/dc				
	COOLING	Free-air convection							
	WORKING TEMP.	-40 ~ +90°C (Refer to "De	erating Curve	')					
	CASE TEMPERATURE	+100°C max.							
	WORKING HUMIDITY	20% ~ 90% RH non-condensing							
ENVIRONMENT	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 $^{\circ}$ C max.							
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes							
	SAFETY STANDARDS	EAC TP TC 020/2011 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	E	3S EN/EN55032(CISPR32)	N/A				
SAFETY &		Radiated	E	3S EN/EN55032(CISPR32)	Class A				
EMC (Note.5)	EMC IMMUNITY	Parameter		Standard	Test Level / Note				
(1101010)		ESD	1	3S EN/EN61000-4-2	Level 2, \pm 8KV air, \pm 4KV contact				
		Radiated Susceptibility		3S EN/EN61000-4-3	Level 2, 3V/m				
		EFT/Burest	1	3S EN/EN61000-4-4	Level 1, 0.5KV				
		Surge		3S EN/EN61000-4-5	Level 1, 0.5KV Line-Line				
		Conducted	1	3S EN/EN61000-4-6	Level 2, 3V(e.m.f.)				
		Magnetic Field		BS EN/EN61000-4-8	Level 2, 3A/m				
	MTBF (Typ.)	1800Khrs MIL-HDBK-217F(25°C)							
OTHERS	DIMENSION (L*W*H)	31.8*20.3*10.2mm (1.25*0.8*0.4 inch)							
OTHERS	CASE MATERIAL	Non-Conductive black plastic (UL 94V-0 rated)							
	PACKING	12.5g							
NOTE	 1.All parameters are specified at normal input(A:12Vdc, B:24Vdc, C:48Vdc), rated load, 25°C 70% RH ambient. 2.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1μf & 47μf capacitor. 3.Line regulation is measured from low line to high line at rated load. 4.Load regulation is measured from 10% to 100% rated load for SCWN06, 25% to 100% rated load for DCWN06. 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) ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 								



■ Mechanical Specification

- All dimensions in mm(inch)
- Tolerance:x.x±0.5mm(x.xx±0.02")

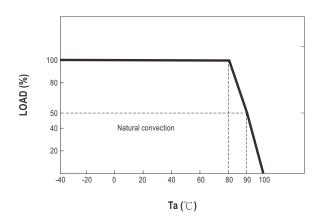




■ Plug Assignment

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