



Наличие и актуальные цены на

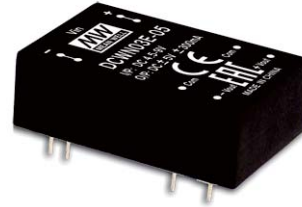
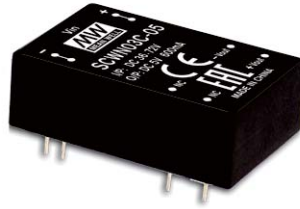
SCWN03E-12

<https://www.mean-well.ru/store/SCWN03E-12/>



3W DIP Package DC-DC Regulated Converter

SCWN03 & DCWN03 series



■ 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

SCWN03 and DCWN03 series are 3W 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 4.5~9V, 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 $\pm 5V/\pm 12V/\pm 15V$ 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 **CWN03** **E** - **12**

Output voltage (3.3/5/12/15Vdc , $\pm 5/\pm 12/\pm 15Vdc$)

Input voltage (E: 4.5~9Vdc , A: 9~18Vdc , B: 18~36Vdc , C: 36~72Vdc)

Rated wattage

Series name { S:Single output
D: Dual output



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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				
SCWN03E-03	5V (4.5 ~ 9V)	15mA	550mA	3.3V	600mA	73%	2200μF
SCWN03E-05		15mA	779mA	5V	600mA	78%	2200μF
SCWN03E-12		18mA	750mA	12V	250mA	80%	2200μF
SCWN03E-15		18mA	750mA	15V	200mA	81%	2200μF
DCWN03E-05		25mA	779mA	±5V	±0 ~ 300mA	77%	*1000μF
DCWN03E-12		25mA	750mA	±12V	±0 ~ 125mA	80%	*1000μF
DCWN03E-15		25mA	750mA	±15V	±0 ~ 100mA	80%	*1000μF
SCWN03A-03	12V (9 ~ 18V)	5mA	212mA	3.3V	600mA	78%	2200μF
SCWN03A-05		5mA	309mA	5V	600mA	82%	2200μF
SCWN03A-12		10mA	298mA	12V	250mA	84%	2200μF
SCWN03A-15		10mA	294mA	15V	200mA	85%	2200μF
DCWN03A-05		10mA	305mA	±5V	±0 ~ 300mA	82%	*1000μF
DCWN03A-12		12mA	298mA	±12V	±0 ~ 125mA	84%	*1000μF
DCWN03A-15		15mA	294mA	±15V	±0 ~ 100mA	85%	*1000μF
SCWN03B-03	24V (18 ~ 36V)	5mA	106mA	3.3V	600mA	78%	2200μF
SCWN03B-05		5mA	152mA	5V	600mA	82%	2200μF
SCWN03B-12		7.5mA	145mA	12V	250mA	86%	2200μF
SCWN03B-15		7.5mA	145mA	15V	200mA	86%	2200μF
DCWN03B-05		7.5mA	152mA	±5V	±0 ~ 300mA	82%	*1000μF
DCWN03B-12		10mA	147mA	±12V	±0 ~ 125mA	87%	*1000μF
DCWN03B-15		10mA	145mA	±15V	±0 ~ 100mA	87%	*1000μF
SCWN03C-03	48V (36 ~ 72V)	3mA	52mA	3.3V	600mA	80%	2200μF
SCWN03C-05		3mA	74mA	5V	600mA	84%	2200μF
SCWN03C-12		3mA	73mA	12V	250mA	86%	2200μF
SCWN03C-15		5mA	73mA	15V	200mA	87%	2200μF
DCWN03C-05		5mA	73mA	±5V	±0 ~ 300mA	85%	*1000μF
DCWN03C-12		5mA	73mA	±12V	±0 ~ 125mA	87%	*1000μF
DCWN03C-15		5mA	74mA	±15V	±0 ~ 100mA	87%	*1000μF

* For each output



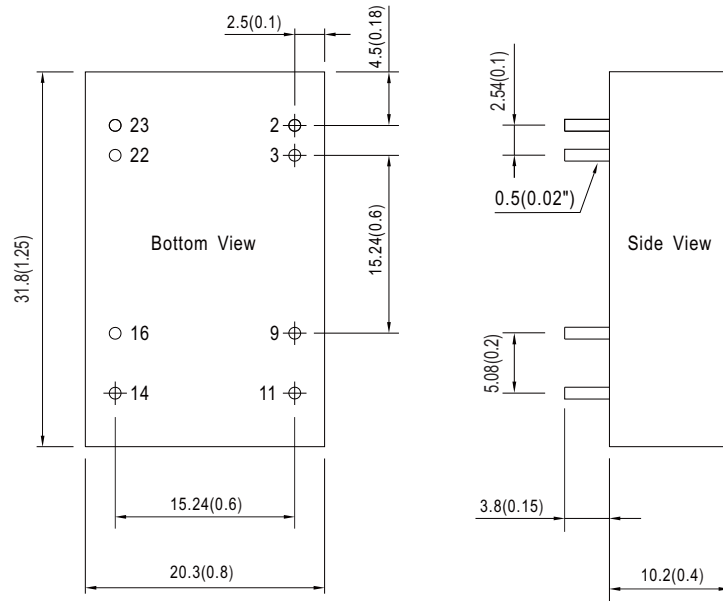
3W DIP Package DC-DC Regulated Converter

SCWN03 & DCWN03 series

SPECIFICATION				
INPUT	VOLTAGE RANGE	E: 4.5~9Vdc , A: 9~18Vdc , B: 18~36Vdc , C: 36~72Vdc		
	SURGE VOLTAGE (100ms max.)	5Vin models : 10Vdc ; 12Vin models : 25Vdc ; 24Vin models : 50Vdc ; 48Vin models : 100Vdc		
	FILTER	Pi type		
	PROTECTION	Fuse recommended. 5Vin models: 1.5A Fast-Acting Type, 12Vin models: 0.8A Fast-Acting Type, 24Vin models: 0.5A Fast-Acting Type, 48Vin models: 250mA Fast-Acting Type		
	INTERNAL POWER DISSIPATION	500mW		
OUTPUT	VOLTAGE ACCURACY	± 1.5%		
	RATED POWER	3W		
	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	5Vin: 4.4Vdc, 12Vin: 8.8Vdc, 24Vin: 17Vdc, 48Vin: 34Vdc	
Shutdown voltage		5Vin: 4.2Vdc, 12Vin: 8Vdc, 24Vin: 16Vdc, 48Vin: 31Vdc		
ENVIRONMENT	COOLING	Free-air convection		
	WORKING TEMP.	-40 ~ +90℃ (Refer to "Derating Curve")		
	CASE TEMPERATURE	+100℃ max.		
	WORKING HUMIDITY	20% ~ 90% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +105℃, 10 ~ 95% RH non-condensing		
	TEMP. COEFFICIENT	0.03% / °C (0 ~ 85℃)		
	SOLDERING TEMPERATURE	1.5mm from case of 1 ~ 3sec./260℃ 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 020/2011 approved		
	WITHSTAND VOLTAGE	I/P-O/P:3KVDC		
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25℃ / 70% RH		
	ISOLATION CAPACITANCE (Typ.)	250pF		
	EMC EMISSION	Parameter	Standard	Test Level / Note
		Conducted	BS EN/EN55032(CISPR32)	N/A
		Radiated	BS EN/EN55032(CISPR32)	Class A
	EMC IMMUNITY	Parameter	Standard	Test Level / Note
		ESD	BS EN/EN61000-4-2	Level 2, ± 8KV air, ± 4KV contact
		Radiated Susceptibility	BS EN/EN61000-4-3	Level 2, 3V/m
		EFT/Bursts	BS EN/EN61000-4-4	Level 1, 0.5KV
		Surge	BS EN/EN61000-4-5	Level 1, 0.5KV Line-Line
		Conducted	BS EN/EN61000-4-6	Level 2, 3V(e.m.f.)
		Magnetic Field	BS EN/EN61000-4-8	Level 2, 3A/m
OTHERS		MTBF	2500Khrs MIL-HDBK-217F(25℃)	
	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	12.3g ; 10pcs/per tube, 600pcs/60 tube/per carton		
NOTE	1.All parameters are specified at normal input(E:5Vdc, A:12Vdc, B:24Vdc, C:48Vdc), rated load, 25℃ 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 SCWN03, 25% to 100% rated load for DCWN03. 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

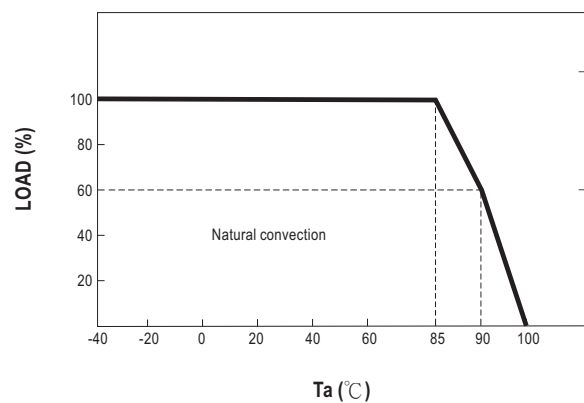
- All dimensions in mm(inch)
- Tolerance: $x.x \pm 0.5\text{mm}$ ($x.xx \pm 0.02"$)
 $x.xx \pm 0.25\text{mm}$ ($x.xxx \pm 0.010"$)
- Pin size is: $0.5 \pm 0.05\text{mm}$ ($0.02" \pm 0.002"$)



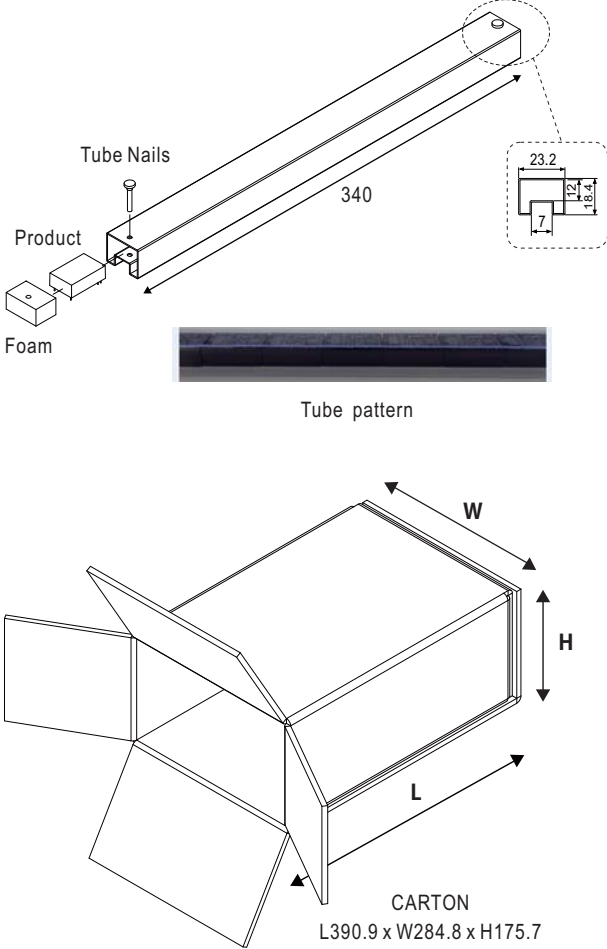
■ Plug Assignment

Pin-Out		
Pin No.	SCWN03 (Single output)	DCWN03 (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



■ Packing

Standard Tube Packing	MPQ Per Tube (PCS)	One Tube G.W.	Max. Q'TY/ Carton(PCS)	One Carton G.W.
Unit : mm  Tube Nails Product Foam 340 23.2 7 Tube pattern CARTON L390.9 x W284.8 x H175.7	10	147g	600	10.82Kg

■ Installation Manual

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