



Features

- DIP24 package with industry standard pinout
- 8:1(9~75Vdc) ultra-wide input range
- Operating temperature range -40 ~ +95°C
- · No minimum load required
- Comply to BS EN/EN55032 radiated Class B without additional components
- High efficiency up to 84%
- Protections: Short circuit (Continuous) / Overload / Over voltage
- · Remote ON/OFF control (Optional)
- · 3KVdc I/O isolation
- · 3 years warranty











Applications

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

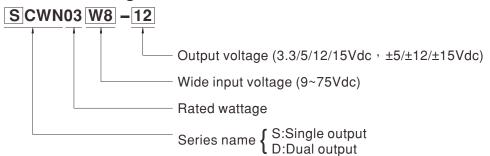
■ GTIN CODE

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

Description

SCWN03W8 and DCWN03W8 series are 3W isolated and regulated module type DC-DC converter with DIP24 package. It features international standard pins, a high efficiency up to 84%, wide working temperature range -40~+95°C, 3KVdc I/P-O/P isolation voltage, Compliance to BS EN/EN55032 radiated Class B without additional components, continuous-mode short circuit protection, 8:1(9~75V) ultra-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





MODEL SELECTION TABLE							
ORDER NO.	INPUT			OUTPUT			
	INPUT VOLTAGE (RANGE)	INPUT CURRENT		OUTPUT	OUTPUT	EFFICIENCY (TYP.)	CAPACITOR LOAD (MAX.)
		NO LOAD	FULL LOAD	VOLTAGE	CURRENT	,	(5 1.)
SCWN03W8-03	Nominal 12V, 24V,36V,48V,72V (9 ~ 75V)	5mA	56mA	3.3V	600mA	74%	600µF
SCWN03W8-05		5mA	79mA	5V	600mA	80%	600µF
SCWN03W8-12		7mA	75mA	12V	250mA	84%	250µF
SCWN03W8-15		8mA	76mA	15V	200mA	83%	200µF
DCWN03W8-05		7mA	80mA	±5V	±300mA	79%	*300µF
DCWN03W8-12		9mA	75mA	±12V	±125mA	84%	*250µF
DCWN03W8-15		10mA	78mA	±15V	±100mA	81%	*200µF

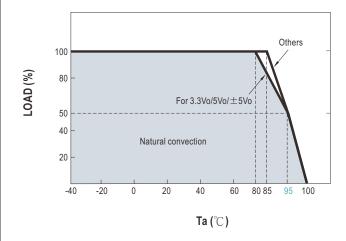
* For each output



SPECIFICATION						
INPUT						
VOLTAGE RANGE	9~75Vdc					
SURGE VOLTAGE (100ms max.)	100Vdc					
FILTER	Pi type					
PROTECTION (Typ.)	1A Fast-Acting Type					
OUTPUT	3 7/1					
VOLTAGE ACCURACY	$\pm 2\%$ for 3.3Vo, $\pm 1.5\%$ for others					
RATED POWER	3W	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
RIPPLE & NOISE Note.2	100mVp-p					
LINE REGULATION Note.3	±0.5%					
LOAD REGULATION Note.4						
CROSS DEGUIATION	Single output models: ±0.5%; Dual output models: ±1.0%					
SWITCHING FREQUENCY (Typ.)	±5% @ 25%~100% Load only for dual output					
PROTECTION	2001112	200KHz				
	Protection type : Conti	nuova automatia racevary				
SHORT CIRCUIT		nuous, automatic recovery				
OVERLOAD	110 ~ 230% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed					
OVERVOLTAGE			auit condition is removed			
OVER VOLTAGE	Protection type : Clamp by zener diode					
UNDER VOLTAGE LOCKOUT (Typ.)		art-up voltage 8.8Vdc				
ENVIRONMENT.	Shutdown voltage 8Vdc					
ENVIRONMENT						
COOLING	Free-air convection					
WORKING TEMP.	-40 ~ +95°C (Refer to "Derating Curve")					
CASE TEMPERATURE	+115°C max.					
WORKING HUMIDITY	20% ~ 90% RH non-condensing					
STORAGE TEMP., HUMIDITY	-40 ~ +125°C, 10 ~ 95% RH non-condensing					
TEMP. COEFFICIENT	$\pm 0.05\%$ / $^{\circ}\text{C}$ max. (0 ~ 85 $^{\circ}\text{C}$)					
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 & EMC (Note.5)						
SAFETY STANDARDS	EAC TP TC 020/2011 a	approved				
WITHSTAND VOLTAGE	I/P-O/P:3KVdc					
ISOLATION RESISTANCE	I/P-O/P:1000M Ohms	/ 500Vdc / 25°C / 70% RH				
ISOLATION CAPACITANCE (Typ.)	1000pF					
	Parameter	Standard	Test Level / Note			
EMC EMISSION	Conducted	BS EN/EN55032	Class A without additional components Class B with additional components			
	Radiated	BS EN/EN55032	Class B without additional componen			
	Parameter	Standard	Test Level / Note			
	ESD	BS EN/EN61000-4-2	Level 2, ±8KV air, ±4KV contact			
	Radiated Susceptibility	y BS EN/EN61000-4-3	Level 2, 3V/m			
EMC IMMUNITY	EFT/Bursts	BS EN/EN61000-4-4	Level 2, 0.5KV			
	Surge	BS EN/EN61000-4-5	Level 2, 1KV Line-Line			
	Conducted	BS EN/EN61000-4-6	Level 2, 3V(e.m.f.)			
OTHERS			, , , , , , , , , , , , , , , , , , ,			
MTBF (Typ.)	2500Khrs 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; 10pcs/per tube, 600pcs/60 tube/per carton					
NOTE	12.0g , Topos/per tube	, cooped to toporpor earter				
1 All parameters are enecified at norm	-l : + (40\/-l-\+l l	d OF°C 700/ DIL ambiant				

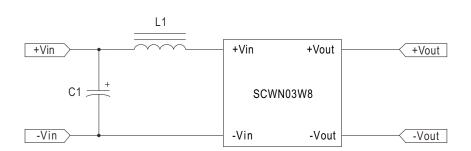
- 1.All parameters are specified at normal input (48Vdc), rated load, 25°C 70% RH ambient.
- 2.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1µf & 47µf capacitor.
- 3.Line regulation is measured from low line to high line at rated load.
- 4.Load regulation is measured from 0% to 100% rated load.
- 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

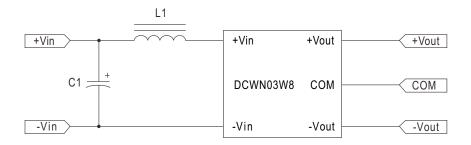
■ Derating Curve



■ EMC Suggestion Circuit

※ Required external components to meet BS EN/EN55032 radiated Class B are as below:

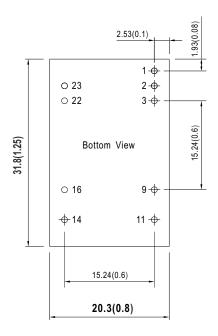


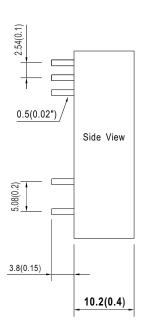


Model No.	BS EN/EN55032 conduction Class B		
	C1	L1	
SCWN03W8 DCWN03W8	2.2μF/100V	12µH	

■ Mechanical Specification

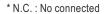
- All dimensions in mm(inch)
- Tolerance: $x.x\pm0.5$ mm($x.xx\pm0.02$ ") $x.xx\pm0.25$ mm($x.xx\pm0.010$ ")
- Pin size is: 0.5 ± 0.05 mm (0.02" ±0.002 ")

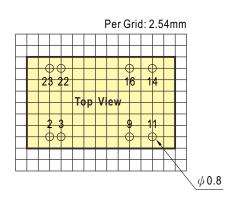




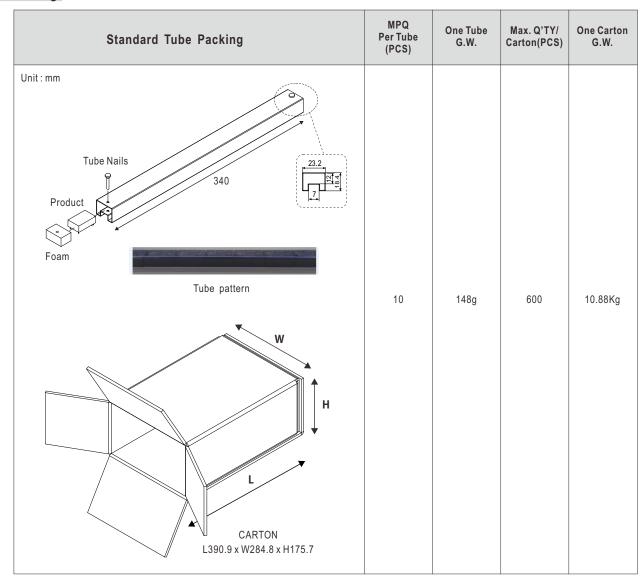
■ Pin Assignment

Pin-Out						
Pin No.	SCWN03W8 (Single output)	DCWN03W8 (Dual output)				
1	N.C. (Remote ON/OFF by request)	N.C. (Remote ON/OFF by request)				
2,3	-Vin	-Vin				
9	N.C.	Common				
11	N.C.	-Vout				
14	+Vout	+Vout				
16	-Vout	Common				
22,23	+Vin	+Vin				





■ Packing



■ Installation Manual

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