





Features

- DIP24 package with industry standard pinout
- 8:1(9~75Vdc) ultra-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 86%
- 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

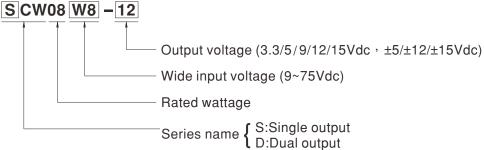
■ GTIN CODE

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

Description

SCW08W8 and DCW08W8 series are 8W isolated and regulated module type DC-DC converter with DIP24 package. It features international standard pins, a high efficiency up to 86%, wide working temperature range -40~+90 $^{\circ}$ C, 3KVdc I/P-O/P isolation voltage, Compliance to BS EN/EN55032 radiated Class A without additional components, continuous-mode short circuit protection, 8:1(9~75V) ultra-wide input range, and various output voltage, 3.3V/5V/9V/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





ORDER NO.	ELECTION TABLE INPUT			OUTPUT			
	INPUT VOLTAGE (RANGE)	INPUT CURRENT		OUTPUT	OUTPUT	EFFICIENCY (TYP.)	CAPACITOR LOAD (MAX.)
		NO LOAD	FULL LOAD	VOLTAGE	CURRENT	(111.)	(WAX.)
SCW08W8-03	Nominal 12V, 24V,36V,48V,72V (9 ~ 75V)	10mA	400mA	3.3V	2400mA	82%	1000µF
SCW08W8-05		10mA	388mA	5V	1600mA	84%	680µF
SCW08W8-09		10mA	392mA	9V	889mA	85%	680µF
SCW08W8-12		10mA	388mA	12V	667mA	86%	470µF
SCW08W8-15		10mA	388mA	15V	533mA	85%	220µF
DCW08W8-05		10mA	397mA	±5V	±800mA	84%	*470µF
DCW08W8-12		10mA	383mA	±12V	±333mA	86%	*220µF
DCW08W8-15		10mA	392mA	±15V	±267mA	84%	*220µF

* For each output

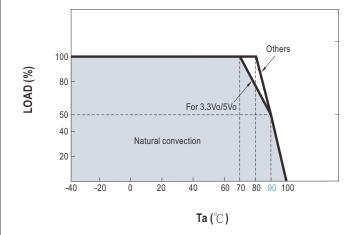


SPECIFICATION						
INPUT	0.75)/1					
VOLTAGE RANGE	9~75Vdc					
SURGE VOLTAGE (100ms max.)	100Vdc					
FILTER	Pi type					
PROTECTION (Typ.)	Fuse recommended. 3/	A Slow-Blow Type				
OUTPUT						
VOLTAGE ACCURACY	±2%					
RATED POWER	8W					
RIPPLE & NOISE Note.2		100mVp-p				
LINE REGULATION Note.3	±0.5%					
LOAD REGULATION Note.4	\pm 1% for 3.3Vo, \pm 0.59	% for others				
CROSS DEGUIATION	±5% @ 25%~100% Lo	oad only for dual outp	ut			
SWITCHING FREQUENCY (Typ.)	300KHz					
PROTECTION						
SHORT CIRCUIT	Protection type : Contin	nuous, automatic reco	overy			
OVERLOAD	200 ~ 300% rated out	<u> </u>				
OTENEOND	Protection type : Hiccu	up mode, recovers a	utomatically after fau	It condition is removed		
OVER VOLTAGE	Protection type : Clamp	p by TVS diode				
INDER VOLTAGE LOCKOUT (T)	Start-up voltage	8.8Vdc				
UNDER VOLTAGE LOCKOUT (Typ.)	Shutdown voltage	8Vdc				
ENVIRONMENT						
COOLING	Free-air convection					
WORKING TEMP.	-40 ~ +90°C (Refer to "Derating Curve")					
CASE TEMPERATURE	+110°C max.					
WORKING HUMIDITY	5% ~ 95% RH non-con	5% ~ 95% RH non-condensing				
STORAGE TEMP., HUMIDITY	-55 ~ +125°C, 10 ~ 95	-55 ~ +125°C, 10 ~ 95% RH non-condensing				
TEMP. COEFFICIENT	0.05% / °C (0 ~ 85°C)					
SOLDERING TEMPERATURE	1.5mm from case of 3	1.5mm from case of 3 ~ 5sec./265°C max.				
VIBRATION	10 ~ 500Hz, 2G 10min.	./1cycle, period for 60	min. each along X, Y,	Zaxes		
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	Stand	lard	Test Level / Note		
	Conducted	BS EN	N/EN55032	N/A		
EMC EMISSION	Radiated	BS EN	N/EN55032	Class A without additional components Class B with additional components		
	Parameter	Stand	lard	Test Level / Note		
	ESD		N/EN61000-4-2	Level 2, ±8KV air, ±4KV contact		
	Radiated Susceptibility	v BS Et	N/EN61000-4-3	Level 2, 3V/m		
EMC IMMUNITY	EFT/Bursts	,	N/EN61000-4-4	Level 1, 0.5KV		
EMC IMMONITY	Surge		N/EN61000-4-5	Level 2, 0.5KV Line-Line		
	Conducted		N/EN61000-4-6	Level 2, 3V(e.m.f.)		
	Magnetic field immuni		N/EN61000-4-8	Level 1, 1A/m		
OTHERS	sgotto nota minum	,		2010. 1, 770111		
MTBF (Typ.)	>300Khre MII -HDRK-	217F(25°C)				
DIMENSION (L*W*H)		>300Khrs MIL-HDBK-217F(25°C)				
CASE MATERIAL	31.8*20.3*12.2mm (1.25*0.8*0.48 inch)					
	Non-Conductive black plastic (UL 94V-0 rated) 17.5g; 15pcs/per tube, 750pcs/50 tube/per carton					
PACKING	17.3g , Topus/per tube,	, roupes/ou tube/per	carton			
NOTE						

- 1.All parameters are specified at normal input(24Vdc), rated load, 25 $^{\circ}\text{C}$ 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

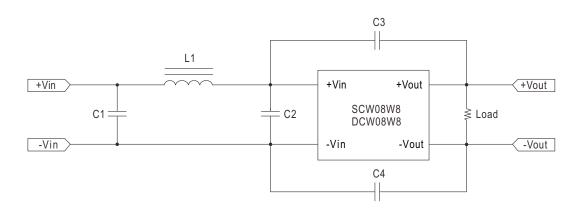


■ Derating Curve



■ EMC Suggestion Circuit

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



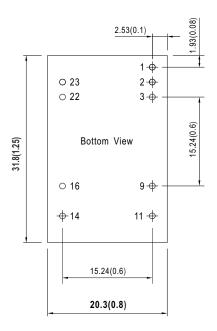
Model No.	BS EN/EN55032 radiated Class B					
	C1	C2	C3	C4	L1	
SCW08W8 DCW08W8	2.2µF/100V	2.2µF/100V	152/5KV	152/5KV	10μH	

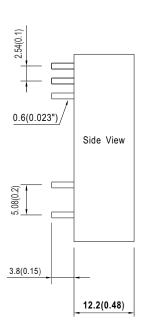
Note: All of capacitors are ceramic capacitors.



■ Mechanical Specification

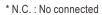
- All dimensions in mm(inch)
- Tolerance:x.x±0.5mm(x.xx±0.02")
- $\begin{array}{c} x.xx\pm 0.5 mm (x.xx\pm 0.02") \\ \bullet \text{ Pin size is:} 0.6\pm 0.1 mm (0.023"\pm 0.0039") \end{array}$

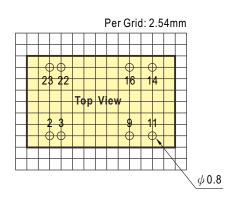




■ Pin Assignment

Pin-Out					
Pin No.	SCW08W8 (Single output)	DCW08W8 (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

Standard Tube Packing	MPQ Per Tube (PCS)	One Tube G.W.	Max. Q'TY/ Carton(PCS)	One Carton G.W.
Tube Plugs Tube pattern Tube pattern CARTON L620 x W230 x H230	15	306g	750	16.1Kg

■ Installation Manual

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