







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

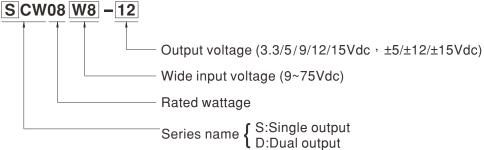
■ GTIN CODE

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
		NO LOAD	FULL LOAD	VOLTAGE	CURRENT	(1117.)	(MAX.)
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

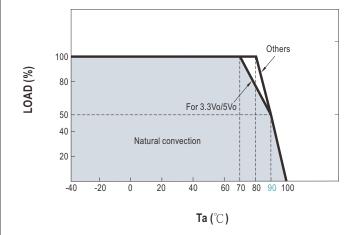


SPECIFICATION						
INPUT						
VOLTAGE RANGE	9~75Vdc					
SURGE VOLTAGE (100ms max.)	100Vdc					
FILTER	Pi type					
PROTECTION (Typ.)	Fuse recommended. 3A Slow-Blow Type					
OUTPUT		, , , , , , , , , , , , , , , , , , ,				
VOLTAGE ACCURACY	±2%					
RATED POWER	8W					
RIPPLE & NOISE Note.2	100mVp-p					
LINE REGULATION Note.3	±0.5%					
LOAD REGULATION Note.4	\pm 1% for 3.3Vo, \pm 0.5%	% for others				
CROSS DEGUIATION	±5% @ 25%~100% Lo					
SWITCHING FREQUENCY (Typ.)	300KHz	out only for dual output				
PROTECTION	3001(1)2					
SHORT CIRCUIT	Protection type : Contin	uous, automatic recovery				
SHOKT CIRCOTT	71					
OVERLOAD	200 ~ 300% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed					
OVER VOLTAGE	Protection type : Clamp	· · · · · · · · · · · · · · · · · · ·	anter fault condit	ion is removed		
OVER VOLIAGE	Start-up voltage					
UNDER VOLTAGE LOCKOUT (Typ.)		8.8Vdc				
ENVIDONMENT	Shutdown voltage 8Vdc					
COOLING	Free-air convection					
WORKING TEMP.		Doroting Curvo"				
	-40 ~ +90°C (Refer to " +110°C max.	Deraung Curve)				
CASE TEMPERATURE		danaina				
WORKING HUMIDITY	5% ~ 95% RH non-condensing					
STORAGE TEMP., HUMIDITY	-55 ~ +125°C, 10 ~ 95% RH non-condensing					
TEMP. COEFFICIENT	0.05% / °C (0 ~ 85°C)	F /005°C				
SOLDERING TEMPERATURE						
VIBRATION	10 ~ 500Hz, 2G 10min.	/1cycle, period for 60min. each a	long X, Y, Z axes			
SAFETY & EMC (Note.5)						
SAFETY STANDARDS	EAC TP TC 020/2011 a	pproved				
WITHSTAND VOLTAGE	I/P-O/P:3KVdc					
ISOLATION RESISTANCE	I/P-O/P:1000M Ohms / 500VDC / 25°C / 70% RH					
ISOLATION CAPACITANCE (Typ.)	1000pF	0(11		Total control of		
	Parameter	Standard		Test Level / Note		
EMC EMISSION	Conducted	BS EN/EN55032		N/A		
	Radiated	BS EN/EN55032		Class A without additional components Class B with additional components		
	Parameter	Standard		Test Level / Note		
	ESD	BS EN/EN61000-	4-2	Level 2, \pm 8KV air, \pm 4KV contact		
	Radiated Susceptibility	BS EN/EN61000-	4-3	Level 2, 3V/m		
EMC IMMUNITY	EFT/Bursts	BS EN/EN61000-	4-4	Level 1, 0.5KV		
	Surge	BS EN/EN61000-	4-5	Level 2, 0.5KV Line-Line		
	Conducted	BS EN/EN61000-	4-6	Level 2, 3V(e.m.f.)		
	Magnetic field immuni	ty BS EN/EN61000-	4-8	Level 1, 1A/m		
OTHERS						
МТВГ (Тур.)	>860Khrs MIL-HDBK-2	217F(25°C)				
DIMENSION (L*W*H)	31.8*20.3*12.2mm (1.25*0.8*0.48 inch)					
CASE MATERIAL	Non-Conductive black plastic (UL 94V-0 rated)					
PACKING	17.5g; 15pcs/per tube, 750pcs/50 tube/per carton					
NOTE		,				

- 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

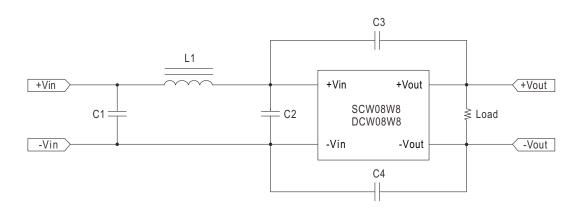


■ Derating Curve



■ EMC Suggestion Circuit

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



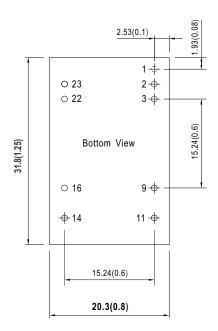
Model No.	BS EN/EN55032 radiated Class B					
Woder No.	C1	C2	C3	C4	L1	
SCW08W8 DCW08W8	2.2µF/100V	2.2µF/100V	152/5KV	152/5KV	10μH	

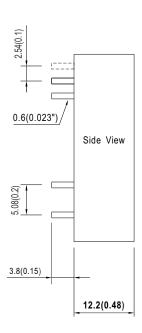
Note: All of capacitors are ceramic capacitors.



■ Mechanical Specification

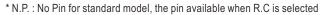
- All dimensions in mm(inch)
- Tolerance: $x.x\pm0.5$ mm($x.xx\pm0.02$ ") $x.xx\pm0.5$ mm($x.xxx\pm0.02$ ")
- Pin size is: 0.6 ± 0.1 mm ($0.023"\pm0.0039"$)

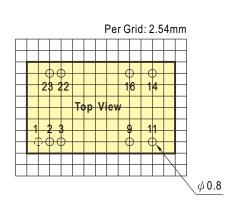




■ Pin Assignment

Pin-Out					
Pin No.	SCW08W8 (Single output)	DCW08W8 (Dual output)			
1	N.P. (Remote ON/OFF by request)	N.P. (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 CARTON L620 x W230 x H230	15	306g	750	16.1Kg

■ Installation Manual

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