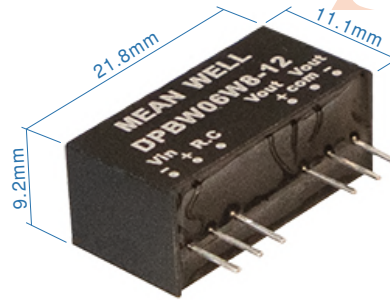
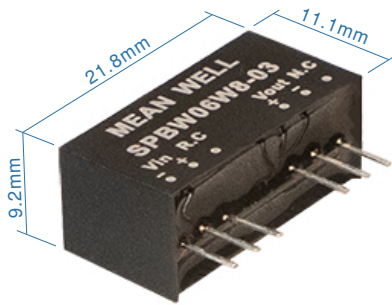




6W SIP Package 8:1 Ultra-Wide Input DC-DC Regulated Converter **SPBW06W8 & DPBW06W8** series



■ Features

- SIP8 package with industry standard pinout
- **8:1 (9~75Vdc)** ultra-wide input range
- Operating temperature range **-40 ~ +80°C**
- No minimum load required
- Comply to BS EN/EN55032 **radiated Class A/B with additional components**
- High efficiency up to 87%
- Protections: Short circuit (Continuous) / Overload / Input under voltage
- 3KVdc I/O isolation
- Remote ON/OFF control
- 3 years warranty

■ Applications

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

■ Description

SPBW06W8 and DPBW06W8 series are 6W isolated and regulated module type DC-DC converter with SIP8 package. It features international standard pins, a high efficiency up to 87%, wide working temperature range -40~+80°C, 3KVdc I/P-O/P isolation voltage, Compliance to BS EN/EN55032 radiated Class A/B with additional components, continuous-mode short circuit protection, etc. SPBW06W8 and DPBW06W8 have an ultra-wide input range of 8:1 (9~75V), 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 **P** **B** **W** **0** **6** **W** **8** - **1** **2**

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

8:1 (9~75Vdc) Wide input voltage

Rated wattage

Series name { S:Single output
D: Dual output



6W SIP Package 8:1 Ultra-Wide Input DC-DC Regulated Converter **SPBW06W8 & DPBW06W8 series**

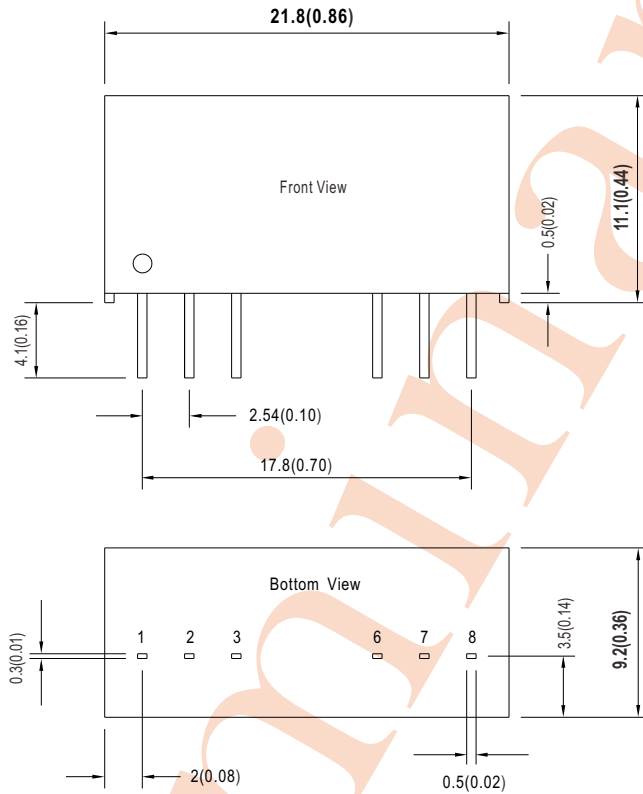
MODEL SELECTION TABLE							
ORDER NO.	INPUT			OUTPUT		EFFICIENCY	CAPACITOR LOAD (MAX.)
	INPUT VOLTAGE (RANGE)	INPUT CURRENT		OUTPUT VOLTAGE	OUTPUT CURRENT		
		NO LOAD	FULL LOAD				
SPBW06W8-03	Nominal 12V, 24V,36V,48V,72V (9 ~ 75V)	4mA	131mA	3.3V	0 ~ 1500mA	79%	1500μF
SPBW06W8-05		4mA	153mA	5V	0 ~ 1200mA	82%	1200μF
SPBW06W8-12		5mA	145mA	12V	0 ~ 500mA	87%	560μF
SPBW06W8-15		5mA	145mA	15V	0 ~ 400mA	86%	470μF
DPBW06W8-05		5mA	151mA	±5V	±0 ~ 600mA	83%	*680μF
DPBW06W8-12		5mA	145mA	±12V	±0 ~ 250mA	86%	*330μF
DPBW06W8-15		5mA	147mA	±15V	±0 ~ 200mA	85%	*220μF

* For each output

SPECIFICATION				
INPUT	VOLTAGE RANGE	9~75Vdc		
	SURGE VOLTAGE (100ms max.)	100Vdc		
	FILTER	Internal capacitor		
	PROTECTION	Fuse recommended. 1A Slow-Blow.		
	INTERNAL POWER DISSIPATION	500mW		
OUTPUT	VOLTAGE ACCURACY	± 1.5%		
	RATED POWER	6W		
	RIPPLE & NOISE Note.2	100mVp-p		
	LINE REGULATION Note.3	± 0.5%		
	LOAD REGULATION Note.4	Single output models: ± 0.5%, Dual output models: ± 1%		
	CROSS DEGUIATION	± 5% @ 25%~100% Load only dual output		
	SWITCHING FREQUENCY (Typ.)	470KHz		
PROTECTION	SHORT CIRCUIT	Protection type : Continuous, automatic recovery		
	OVERLOAD	110 ~ 230% rated output power		
		Protection type : Recovers automatically after fault condition is removed		
	UNDER VOLTAGE	Start-up voltage	8.8Vdc	
		Shutdown voltage	8Vdc (Typ.)	
FUNCTION	REMOTE CONTROL	Power ON: R.C. ~ -Vin <1.2Vdc or open circuit ; Power OFF: R.C. ~ -Vin >5.5 ~ 15Vdc		
ENVIRONMENT	COOLING	Free-air convection		
	WORKING TEMP.	-40 ~ +80℃ (Refer to "Derating Curve")		
	CASE TEMPERATURE	+120℃ max.		
	WORKING HUMIDITY	20% ~ 90% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-55 ~ +125℃, 10 ~ 95% RH non-condensing		
	TEMP. COEFFICIENT	0.03% / °C (0 ~ 80℃)		
	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:1000M Ohms / 500VDC / 25℃ / 70% RH		
	ISOLATION CAPACITANCE (Typ.)	1000pF		
	EMC EMISSION	Parameter	Standard	Test Level / Note
		Conducted	BS EN/EN55032(CISPR32)	Class A/B with external components
		Radiated	BS EN/EN55032(CISPR32)	Class A/B with external components
	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 2, 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.)
OTHERS	MTBF	1850Khrs MIL-HDBK-217F(25℃)		
	DIMENSION (L*W*H)	21.8*9.2*11.1mm (0.86*0.36*0.44 inch)		
	CASE MATERIAL	Non-Conductive black plastic (UL 94V-0 rated)		
	PACKING	4.8g ; 14pcs/per tube, 2058pcs/147 tube/per carton		
NOTE	1.All parameters are specified at normal input (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 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			

Mechanical Specification

- All dimensions in mm(inch)
- Tolerance: $x.x \pm 0.5\text{mm}$ ($x.xx \pm 0.02"$)
- Pin pitch tolerance: $\pm 0.05\text{mm}$ ($\pm 0.002"$)

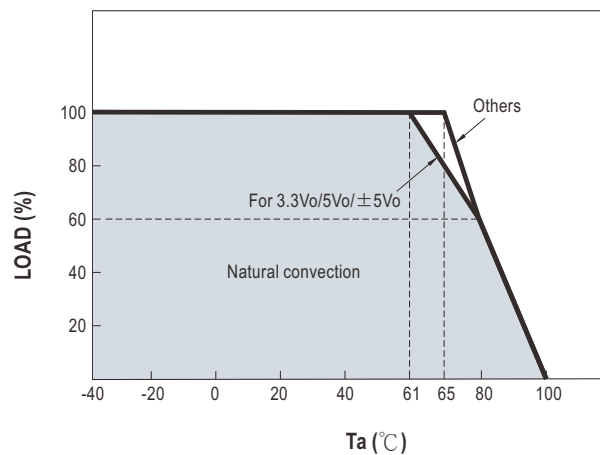


Plug Assignment

Pin-Out		
Pin No.	SPBW06W8 (Single output)	DPBW06W8 (Dual output)
1	-Vin	-Vin
2	+Vin	+Vin
3	R.C.	R.C.
4,5	N.P.	N.P.
6	+Vout	+Vout
7	-Vout	Common
8	N.C.	-Vout

* N.P. : No PIN
N.C. : No connected

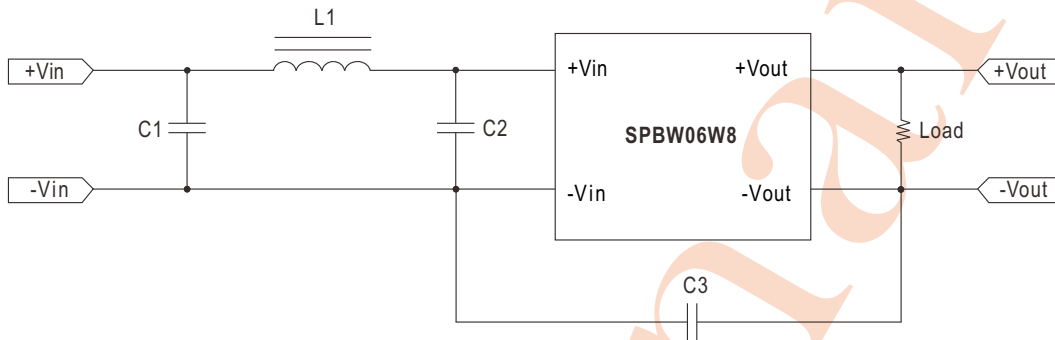
Derating Curve



■ EMC Suggestion Circuit

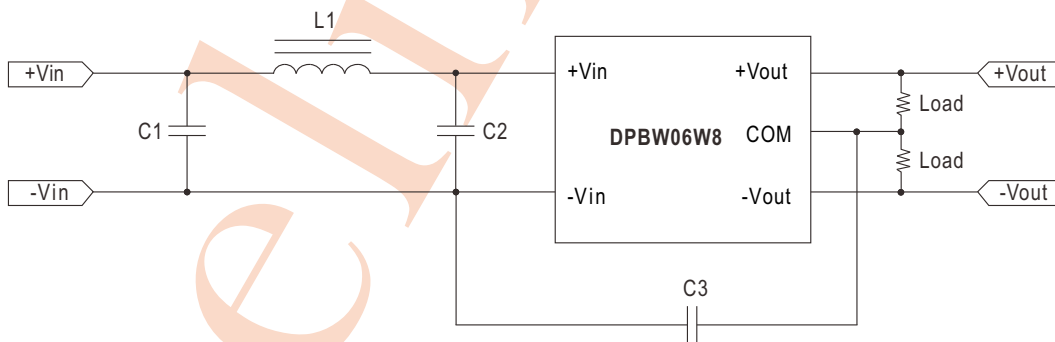
※ EMC Considerations EMI Test standard: BS EN/EN55032 Class A and Class B Conducted Emission Test Condition:
Input Voltage: Nominal, Output Load: Full Load

©SPBW06W8



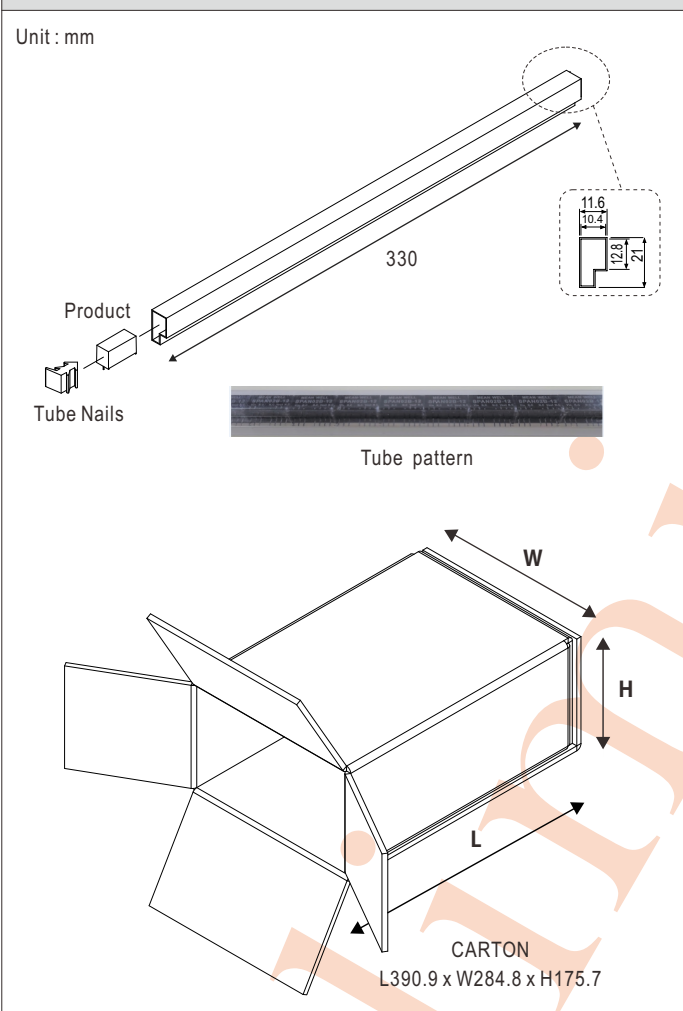
Model No.	BS EN/EN55032 Class A		BS EN/EN55032 Class B		
	C1	L1	C1,C2	C3	L1
SPBW06W8	2.2μF/100V	10μH	2.2μF/100V	1000pF/4KV	47μH

©DPBW06W8



Model No.	EN55032 Class A		EN55032 Class B		
	C1	L1	C1,C2	C3	L1
DPBW06W8	2.2μF/100V	10μH	2.2μF/100V	1000pF/4KV	47μH

■ Packing

Standard Tube Packing	MPQ Per Tube (PCS)	One Tube G.W.	Max. Q'TY/ Carton(PCS)	One Carton G.W.
Unit : mm  330 11.6 10.4 12.8 21 Product Tube Nails Tube pattern W H L CARTON L390.9 x W284.8 x H175.7	14	78.7g	2058	13.57Kg

■ Installation Manual

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