



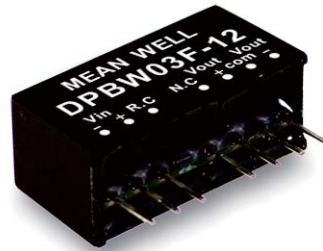
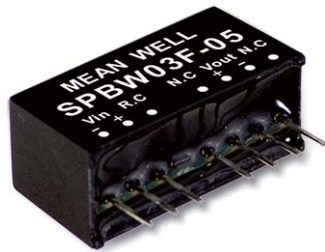
Наличие и актуальные цены на

SPBW03F-12

<https://www.mean-well.ru/store/SPBW03F-12/>



3W SIP Package DC-DC Regulated Converter **SPBW03 & DPBW03** series



■ Features

- SIP8 package with industry standard pinout
- 4:1 ultrawide input range
- Operating temperature range -40 ~ +85°C
- No minimum load required
- Comply to BS EN/EN55032 radiated Class A/B with additional components
- High efficiency up to 85%
- Protections: Short circuit (Continuous) / Overload / Input under voltage
- 1.5KVDC I/O isolation
- Remote ON/OFF control
- 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

SPBW03 and DPBW03 series are 3W isolated and regulated module type DC-DC converter with SIP8 package. It features international standard pins, a high efficiency up to 85%, wide working temperature range -40~+85°C, 1.5KVDC I/P-O/P isolation voltage, compliance to BS EN/EN55032 radiated Class A/B with additional components, continuous-mode short circuit protection, etc. The models account for different input voltage 9~36V and 18~75V 4:1 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**P****B****W****0****3****F****-****12**

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

Input voltage (F: 9~36Vdc, G: 18~75Vdc)

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				
SPBW03F-03	24V (9 ~ 36V)	5mA	122mA	3.3V	0 ~ 700mA	79%	180μF
SPBW03F-05		4mA	154mA	5V	0 ~ 600mA	81%	1000μF
SPBW03F-12		11mA	150mA	12V	0 ~ 250mA	84%	220μF
SPBW03F-15		12mA	150mA	15V	0 ~ 200mA	84%	120μF
DPBW03F-05		8mA	154mA	±5V	±0 ~ 300mA	81%	*100μF
DPBW03F-12		27mA	150mA	±12V	±0 ~ 125mA	83%	*470μF
DPBW03F-15		16mA	152mA	±15V	±0 ~ 100mA	81%	*100μF
SPBW03G-03	48V (18 ~ 75V)	3mA	61mA	3.3V	0 ~ 700mA	79%	180μF
SPBW03G-05		3mA	77mA	5V	0 ~ 600mA	82%	1000μF
SPBW03G-12		6mA	74mA	12V	0 ~ 250mA	85%	220μF
SPBW03G-15		7mA	75mA	15V	0 ~ 200mA	84%	120μF
DPBW03G-05		5mA	76mA	±5V	±0 ~ 300mA	82%	*100μF
DPBW03G-12		13mA	75mA	±12V	±0 ~ 125mA	83%	*470μF
DPBW03G-15		13mA	75mA	±15V	±0 ~ 100mA	83%	*100μF

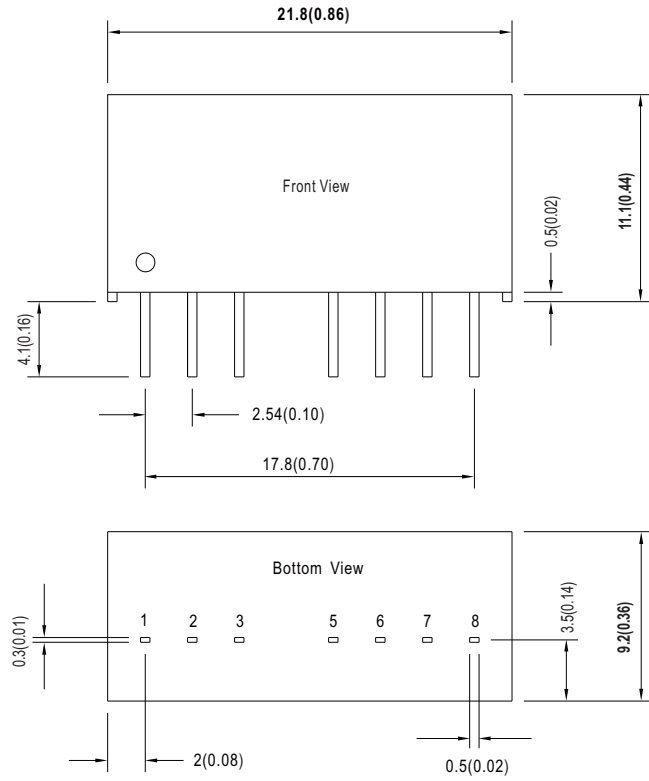
* For each output



SPECIFICATION				
INPUT	VOLTAGE RANGE	F: 9~36Vdc , G: 18~75Vdc		
	SURGE VOLTAGE (100ms max.)	24Vin models : 50Vdc, 48Vin models : 100Vdc		
	FILTER	Internal capacitor		
	PROTECTION	Fuse recommended. 24Vin models: 1A Slow-Blow, 48Vin models: 500mA Slow-Blow 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	Protection type : Recovers automatically after fault condition is removed		
	UNDER VOLTAGE LOCKOUT	Start-up voltage	24Vin : 7.5Vdc ; 48Vin : 15.5Vdc	
		Shutdown voltage	24Vin : 6Vdc ; 48Vin : 12Vdc	
FUNCTION	REMOTE CONTROL	Power ON: R.C. ~ -Vin open circuit ; Power OFF: R.C. ~ -Vin <1.2V or short		
ENVIRONMENT	COOLING	Free-air convection		
	WORKING TEMP.	-40 ~ +85℃ (Refer to "Derating Curve")		
	CASE TEMPERATURE	+100℃ max.		
	WORKING HUMIDITY	20% ~ 90% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +125℃, 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 (EAC TP TC 004 for 48Vin type only) approved		
	WITHSTAND VOLTAGE	I/P-O/P:1.5KVDC		
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25℃ / 70% RH		
	ISOLATION CAPACITANCE (Typ.)	500pF		
	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 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	Single output models: 2800Khrs ; Dual output models: 2100Khrs 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	4.3g ; 14pcs/per tube, 2058pcs/147 tube/per carton		
NOTE	1.All parameters are specified at normal input(F:24Vdc, G: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. 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

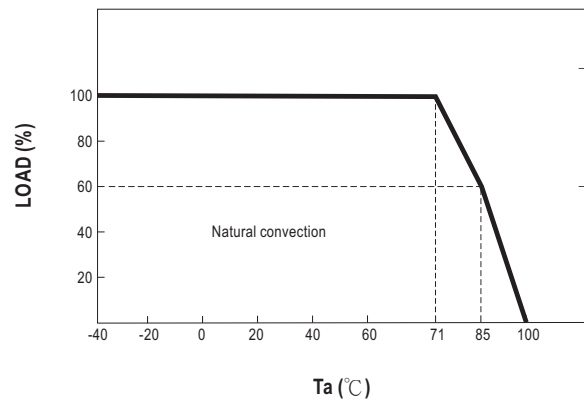
- All dimensions in mm(inch)
- Tolerance: $x.x \pm 0.5\text{mm}$ ($x.xx \pm 0.02"$)
- Pin pitch tolerance: $\pm 0.05\text{mm}$ ($\pm 0.002"$)



■ Plug Assignment

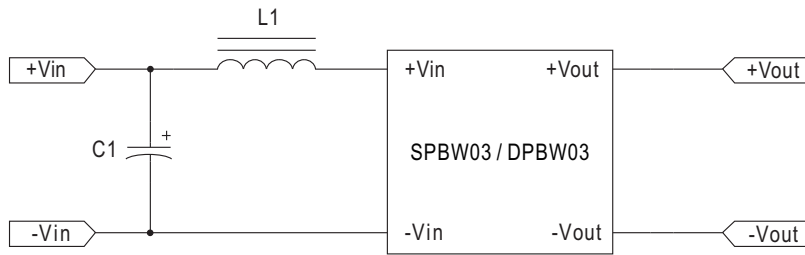
Pin-Out		
Pin No.	SPBW03 (Single output)	DPBW03 (Dual output)
1	-Vin	-Vin
2	+Vin	+Vin
3	R.C.	R.C.
5	N.C.	N.C.
6	+Vout	+Vout
7	-Vout	Common
8	N.C.	-Vout

■ Derating Curve



■ EMC Suggestion Circuit

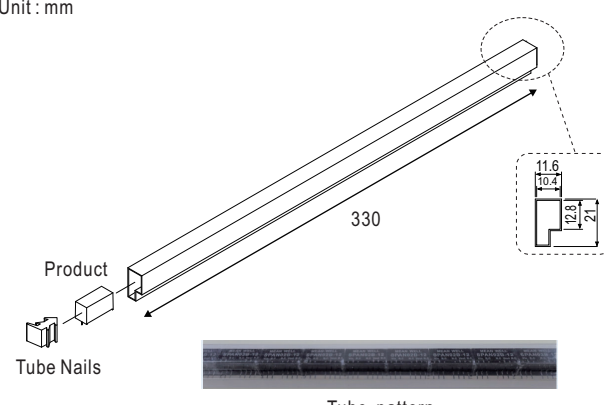
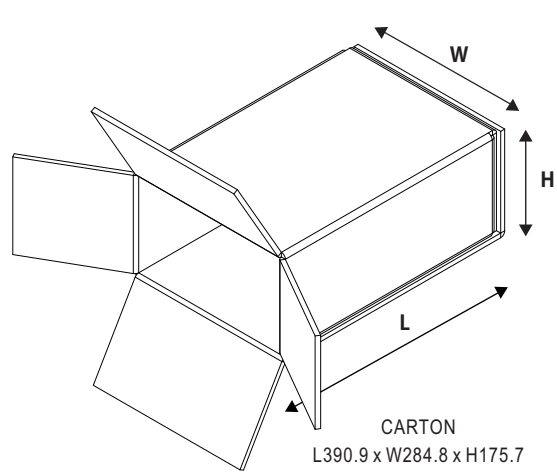
※ EMC Considerations EMI Test standard: EN55022 Class A and Class B Conducted Emission Test Condition:
Input Voltage: Nominal, Output Load: Full Load



Model No.	EN55022 class A		EN55022 class B	
	C1	L1	C1	L1
S(D)PBW03F	2.2μF/50V	10μH	6.8μF/50V	18μH
S(D)PBW03G	2.2μF/100V	15μH	2.2μF/100V	56μH

Note : All of capacitors are ceramic capacitors and 1210 size for EN55022 class A 、1812 size for EN55022 class B

■ Packing

Standard Tube Packing	MPQ Per Tube (PCS)	One Tube G.W.	Max. Q'TY/ Carton(PCS)	One Carton G.W.
Unit: mm  Product Tube Nails Tube pattern  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>