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Features

- · SIP8 package with industry standard pinout
- 4:1 ultrawide input range
- Operating temperature range -40 ~ +85°C
- · No minimum load required
- · High efficiency up to 89%
- · Protections: Short circuit (Continuous) / Overload
- 1.5KVDC I/O isolation
- · Remote ON/OFF control
- 3 years warranty











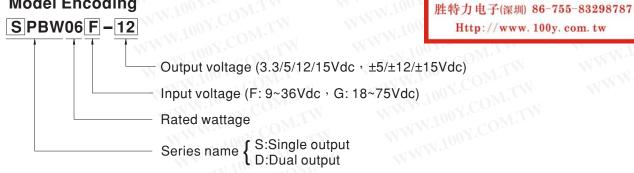
Applications

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

Description

SPBW06 and DPBW06 series are 6W isolated and regulated module type DC-DC converter with SIP8 package. It features international standard pins, a high efficiency up to 89%, wide working temperature range -40~+85 $^{\circ}$ C, 1.5KVDC I/P-O/P isolation voltage, 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



勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699

	MIN	INF	PUT		OU	TPUT		
OF	RDER NO.	INPUT VOLTAGE	INPUT	CURRENT	OUTPUT	OUTPUT	EFFICIENCY (TYP.)	CAPACITOR LOA (MAX.)
	COMIT	(RANGE)	NO LOAD	FULL LOAD	VOLTAGE	CURRENT		(,
SF	PBW06F-03	M MMM.	4mA	310mA	3.3V	0 ~ 1500mA	81%	4700µF
SF	PBW06F-05	IN MM	4mA	298mA	5V	0 ~ 1200mA	85%	2200µF
SF	PBW06F-12	N.TW WY	5mA	288mA	12V	0 ~ 500mA	88%	1100µF
SF	PBW06F-15	24V (9 ~ 36V)	5mA	288mA	15V	0 ~ 400mA	88%	470µF
DF	PBW06F-05	COM.TW	4mA	298mA	±5V	±0 ~ 600mA	86%	*1400µF
DF	PBW06F-12	COM.TW	6mA	288mA	±12V	±0 ~ 250mA	88%	*660µF
DF	PBW06F-15	OY.COM.TW	7mA	288mA	±15V	±0 ~ 200mA	88%	*220µF
SF	PBW06G-03	100Y.COM.TW	3mA	155mA	3.3V	0 ~ 1500mA	82%	4700µF
SF	PBW06G-05	V.100Y.COM.TV	3mA	150mA	5V	0 ~ 1200mA	85%	2200µF
SF	PBW06G-12	$^{\mathrm{VM},100\mathrm{X},\mathrm{COM}}$	3mA	145mA	12V	0 ~ 500mA	88%	1100µF
SF	PBW06G-15	48V (18 ~ 75V)	5mA	145mA	C15V	0 ~ 400mA	87%	470µF
DF	PBW06G-05	MMM.100X.CO	4mA	150mA	±5V	±0 ~ 600mA	85%	*1400µF
DF	PBW06G-12	MMM.100X.CO	3mA	145mA	±12V	±0 ~ 250mA	89%	*660µF
DF	PBW06G-15	MMM.1007.	4mA	145mA	±15V	±0 ~ 200mA	88%	*220µF

* For each output WWW.100Y.COM.TW WWW.100Y



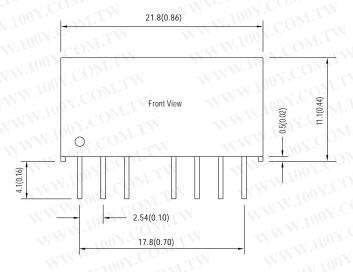
6W SIP Package DC-DC Regulated Converter SPBW06 & DPBW06 series

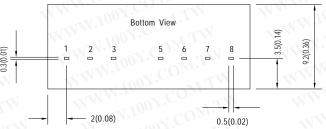
	VOLTAGE RANGE	F: 9~36Vdc , G: 18~75Vdc		-3					
INDUT TW		24Vin models : 50Vdc, 48Vin r	models: 100Vdc						
INPUT	FILTER	Internal capacitor Fuse recommended. 24Vin models: 1.25A fast-acting Type, 48Vin models: 630mA fast-scting Type							
	PROTECTION		odels: 1.25A fast-acting Type, 48Vin r	nodels: 630mA fast-scting Type					
COM.		500mW	MAIN TO CO	7.7					
	VOLTAGE ACCURACY	±1.5%	WW.100 CC	M. L					
	RATED POWER	6W	W 1001.	OMIT					
OUTPUT									
	LINE REGULATION Note.3	1	N MM 100X	O'TY					
	12 4	AD REGULATION Note.4 Single output models: ±0.5%, Dual output models: ±1%							
4.100 r.	SWITCHING FREQUENCY (Typ.)		WHAN TOO	Y.COM.					
PROTECTION	SHORT CIRCUIT	Protection type : Continuous,		CONLIN					
1007	OVERLOAD		tomatically after fault condition is rem						
FUNCTION	REMOTE CONTROL	Power ON: R.C. ~ -Vin high im (Please refer to the application	pedance open ; Power OFF: supplyin n circuit in following page)	removed Polying 2~4mA for R.C. pin Y, Z axes Test Level / Note N/A Class A with external components Test Level / Note Level 2, ±8KV air, ±4KV contact Level 2, 3V/m Level 1, 0.5KV Level 1, 0.5KV Line-Line Level 2, 3V(e.m.f.) Level 2, 3A/m					
	COOLING	Free-air convection	ON:11	The COMP.					
ENVIRONMENT	WORKING TEMP.	-40 ~ +85°C (Refer to "Derating Curve")							
	CASE TEMPERATURE	+100°C max.							
CNIVIDONIMENT	WORKING HUMIDITY	20% ~ 90% RH non-condensing							
ENVIRUNMENT	STORAGE TEMP., HUMIDITY	-55 ~ +125°C, 10 ~ 95% RH non-condensing							
	TEMP. COEFFICIENT	0.03% / °C (0 ~ 65°C)							
	SOLDERING TEMPERATURE	1.5mm from case of 1 ~ 3sec./260°C max.							
WV	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes							
	SAFETY STANDARDS	EAC TP TC 004 approved							
	WITHSTAND VOLTAGE	I/P-O/P:1.5KVDC							
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH							
	ISOLATION CAPACITANCE (Typ.)	50pF							
	W.1007.	Parameter	Standard	Test Level / Note					
C A F F T \ / 0	EMC EMISSION	Conducted	EN55032(CISPR32)	N/A					
SAFETY &	MAN, TOOX.C	Radiated	EN55032(CISPR32)						
EMC (Note.5)	WWW.Iook	Parameter	Standard	Test Level / Note					
(,	MWW.100	ESD	EN61000-4-2	Level 2, ±8KV air, ±4KV contact					
	W 1 100	Radiated Susceptibility	EN61000-4-3	Level 2, 3V/m					
	EMC IMMUNITY	EFT/Burest	EN61000-4-4	Level 1, 0.5KV					
	WWW	Surge	EN61000-4-5	Level 1, 0.5KV Line-Line					
	MMW.	Conducted	EN61000-4-6	Level 2, 3V(e.m.f.)					
	WWW.	Magnetic Field	EN61000-4-8	Level 2, 3A/m					
	MTBF	1850Khrs MIL-HDBK-217F(2	25°C)CO	WWW.I					
	DIMENSION (L*W*H)	21.8*9.2*11.1mm (0.86*0.36*0.44 inch)							
OTHERS	CASE MATERIAL	Non-Conductive black plastic (UL 94V-0 rated)							
	PACKING	4.8g							
		specified at normal input(F:24Vdc, G:48Vdc), rated load, 25°C 70% RH ambient. measured at 20MHz by using a 12" twisted pair terminated with a 0.1µf & 47µf capacitor. neasured from low line to high line at rated load. measured from 0% to 100% rated load. nt must be re-confirm that it still meet EMC directives. For guidance on how to perform these EMC tests, please g of component power supplies."(as available on http://www.meanwell.com)							

■ Mechanical Specification

N.100Y.COM.TW

- Tolerance:x.x±0.5mm(x.xx±0.02")
 Pin pitch tolerance:+0.05mm(x.xx±0.02") • Pin pitch tolerance: ± 0.05 mm (± 0.002 ")





■ Plug Assignment

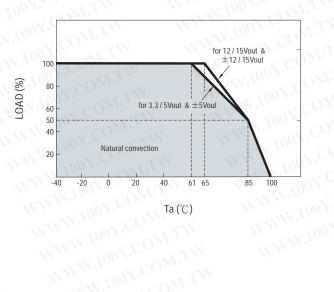
N W	Pin-Out	LTW
Pin No.	SPBW06 (Single output)	DPBW06 (Dual output)
1 ///	-Vin	-Vin
2	+Vin	+Vin
3	R.C.	R.C.
5	N.C.	N.C.
6	+Vout	+Vout
7	-Vout	Common
8	N.C.	-Vout
	WWW.	Tho COP

WW.100Y.COM.TW

WWW.100Y.CO

WWW.

Derating Curve

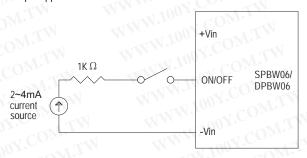




■ Remote ON/OFF Control

The remote ON/OFF input feature of the converter allows external circuitry to turn the converter ON or OFF. Active-high remote ON/OFF is available as standard. The converter is turned ON if the remote ON/OFF pin is open circuit. Supply the ON/OFF pin at 2mA to 4mA will turn the converter OFF. The signal level of the ON/OFF pin is defined with respect to ground. If not using the ON/OFF pin, leave the pin open (module will be ON, recommended application as below)

ON/OFF pin appliend current via 1K Ω

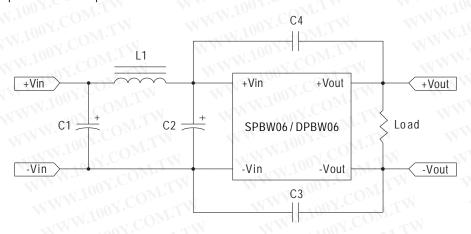


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Application circuit

■ EMC Suggestion Circuit

*Required external components to meet EN55032 class A/B emission are as below:



Model No.	EN55032 Class A					EN55032 Class B				
Woder No.	C1	C2	C3	C4	L1	C1	C2	C3	C4	°L1
SPBW06F-03	10μF/50V	NC	150pF/2KV	150pF/2KV	10µH	10μF/50V	NC	1500pF/2KV	1500pF/2KV	10µH
SPBW06F-05	10μF/50V	NC	150pF/2KV	150pF/2KV	10μΗ	10μF/50V	NC	1500pF/2KV	1500pF/2KV	10µH
SPBW06F-12	10μF/50V	NC	150pF/2KV	150pF/2KV	10µH	10μF/50V	NC	1500pF/2KV	1500pF/2KV	10µH
DPBW06F-15	10μF/50V	NC	150pF/2KV	150pF/2KV	10µH	10μF/50V	NC	1500pF/2KV	1500pF/2KV	10µH
DPBW06F-05	10μF/50V	NC	150pF/2KV	150pF/2KV	10μH	10μF/50V	NC	1500pF/2KV	1500pF/2KV	10µH
DPBW06F-12	10μF/50V	NC	150pF/2KV	150pF/2KV	10µH	10μF/50V	NC C	1500pF/2KV	1500pF/2KV	10µH
DPBW06F-15	10μF/50V	NC	150pF/2KV	150pF/2KV	10µH	10μF/50V	NC	1500pF/2KV	1500pF/2KV	10µH
SPBW06G-03	1µF/100V	NC	150pF/2KV	150pF/2KV	10µH	2.2µF/100V	2.2µF/100V	1500pF/2KV	1500pF/2KV	10µH
SPBW06G-05	1µF/100V	NC	150pF/2KV	150pF/2KV	10μΗ	2.2µF/100V	2.2µF/100V	1500pF/2KV	1500pF/2KV	10µH
SPBW06G-12	1μF/100V	NC	150pF/2KV	150pF/2KV	10μΗ	2.2µF/100V	2.2µF/100V	1500pF/2KV	1500pF/2KV	10µH
SPBW06G-15	1µF/100V	NC	150pF/2KV	150pF/2KV	10μΗ	2.2µF/100V	2.2µF/100V	1500pF/2KV	1500pF/2KV	10µH
DPBW06G-05	1µF/100V	NC	150pF/2KV	150pF/2KV	10μΗ	2.2µF/100V	NC	1500pF/2KV	1500pF/2KV	10μH
DPBW06G-12	1µF/100V	NC	150pF/2KV	150pF/2KV	10µH	2.2µF/100V	NC	1500pF/2KV	1500pF/2KV	10µH
DPBW06G-15	1μF/100V	NC	150pF/2KV	150pF/2KV	10µH	2.2µF/100V	NC	1500pF/2KV	1500pF/2KV	10µH
: All of capacito		с сара	citors							

■ Installation Manual

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