

WA/B/E/F-6W Series







Features

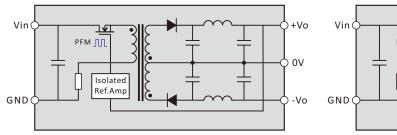
- ◆ Operating temperature: -40 to +85°C
- 9-18/18-36/36-75/9-36/18-75Vdc input
- ◆ 5V/9V/12V/15V/24V/±5V/±9V/±12V/±15V output
- Efficiency up to 89%
- ♦ Ultra-low noise & ripple
- ◆ Bare module meet CISPR22/EN55022 Class B
- ♦ 100% burn-In
- No external heat sink
- ◆ Continuous short circuit protection
- ◆ RoHS/CE multiple compliance
- ♦ With 3 years warranty
- ◆ Case size 31.8×20.3×11.5mm 25.4×25.4×11.5mm

General Description

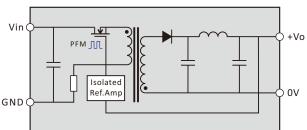
WA/B/E/F_P(D)-6W series power converter compact, high power density, can save valuable board space to reduce product volume. It has the characteristics of wide input voltage range, low starting current, good load characteristics and minimum noise characteristics. The chip ceramic capacitors and SMT are used in all series. These converters have characteristics of long life, excellent performance, stability and reliability.



Functional Diagram

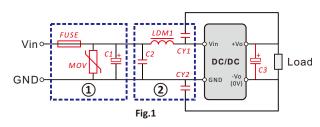


Dual Series



Single Series

EMC Solution-Recommended Circuit



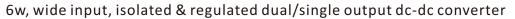
Notes:

 ${\sf Part}\ \textcircled{1}$ in the Fig.1 is used for EMS test and part 2 for EMI filtering; selected based on needs.

Parameter Description									
Model	Vin:12V Vin:24V Vin:48V								
FUSE	Choose according to actual input current								
MOV	S14K35	S14K35 S14K35 S14K60							
C1	330uF/50V	330uF/50V	330uF/100V						
C2	1uF/50V	1uF/50V	1uF/100V						
С3	Refe	to the Cout in	Fig.3						
LDM1		4.7uH							
CY1/CY2	1	nF/2kV or 4.5k	V						

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WA/B/E/F_P/D-6W Series





Input Specifications										
Item		Min	Тур	Max	Units					
Lead to the Archive	12V input models	-0.7		20						
Input Impulse Voltage (1 sec max)	24V input models	-0.7		40						
(2500	48V input models	-0.7		80	Vdc					
	12V input models			9	vac					
Startup Voltage	24V input models			18						
	48V input models			36						
Startup Current @ 100%	<1.6 lin-max.									
Input Filter	"LC" filter									
Input Polarity Protectio	n	Unavailable								

Output Specifications										
Item		Test Conditions Min		Тур	Max	Units				
Output Power		Ta=-40-+70°C			6	W				
Line Regulation	ı	100% load, input low to high		±0.1	±0.3					
Load Regulation		10-100% load, nominal input		±0.3	±0.5					
Output Voltage	Master	100% load, nominal input		±1	±3	%				
Accuracy	Slave	100% load, nominal input		±3	±5					
Balance of Vout	İ	Dual output, balance load		±0.5	±1.5					
Ripple & Noise		DC-20MHz bandwidth		30	60	mVp-p				
Temperature D	rift	100% load, nominal input	±0.03		±0.03	%/°C				
Short Circuit Protection			Continuous, Self-Recovery			very				
Output Filter				"П"	filter					

Isolation Specifications											
Item		Test Conditions	Min	Тур	Max	Units					
Isolation	WA/WB	T	1500			Vdc					
Voltage	WE/WF	Tested for 60S and 1mA max	3000			vac					
Insulation Resistance		Test at 500Vdc	1000			МΩ					
Isolation Capacitance		IN-OUT, 100kHz @ 0.1Vdc		1000		pF					

Common Specification										
Item	Test Conditions	Min	Тур	Max	Units					
Switching Frequency	100% load, input low to high	180		550	kHz					
Operating Temperature	Ta>70°C derating	-45		+85						
Case Temp Rise	100% load, nominal input		40		°C					
Lead Temperature	1.5mm from case for 10 seconds			+300						
Storage Temperature		-50		+130						
Storage Humidity				95	%					
MTBF	Using MIL-HDBK 217 @ 25℃	1000 k ho		k hours						
Hot Plug		Unavailable								
Case Material		Aluminium Alloy								

EMC:	EMC Specification									
EMI	CE	EN55022:2010	Class B (Bare component)							
EIVII	RE	EN55022:2010	Class B (Bare component)							
EMS	ESD	EN55024:2010/EN61000-4-2	perf. Criterion B							
EIVIS	RS	EN55024:2010/EN61000-4-3	perf. Criterion A							

Application Note

1. The power requirements

When it is used in unregulated power supply, be sure that the fluctuating range of the power supply and the rippled voltage do not exceed the module standard. Input current of power supply should afford the startup current of this kind of DC/DC module (see Fig.2). General: lp < 1.6 lin-max.

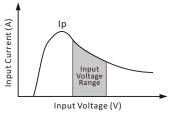
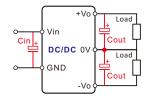


Fig.2

2. Typical application

All DC/DC converters of this series are tested according to the recommended circuit before delivery (see Fig. 3, but without external capacitor Cin & Cout).



Vin	Cin
12V	220uF
24V	100uF
48V	10-47uF
Cou	ıt=10uF

Fig.3

General applications, the **output** does not require any external filter components. If the required to further reduce input and output ripple, properly increase the input and output of additional capacitors Cin and Cout or select capacitors of low equivalent impedance. Provided that the capacitance is not larger than the max capacitive load of the product, avoid affect the product startup performance.

3. EMC solution-recommended circuit

The WA and WB series products have a very good ripple and noise performance so that bare module meet the EN55022 Class B.
The WE and WF series products, recommend Fig.1 for the EMC solution that meet the EN55022 Class B (see Fig.1).

4. On derating

When the environmental temperature exceeds 70°C the module must be derating used, please refer to derating curve (see Fig.4).

Temperature Derating Curve

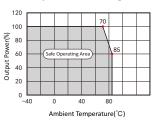


Fig.4

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[·] All specifications are subject to change without notice

WA_D-6W & WB_D-6W Series



6w, wide input, isolated & regulated dual/single output dc-dc converter

Model	Product P			les	+		Outroit	
CE/RoHS WA1205D-6W 80 WA1215D-6W 85 12 9-18 112 1250 100			Eff					
WA1205D-6W 80 470 WA1209D-6W 83 12 9-18 ±15 ±600 470 WA1215D-6W 85 12 9-18 ±12 ±250 100 EVALUATE D-6W 86 24 ±15 ±200 100 PWA2409D-6W 88 24 ±15 ±600 470 PWA2415D-6W 86 24 ±9 ±333 220 PWA4805D-6W 88 24 ±9 ±333 220 PWA4815D-6W 87 48 ±5 ±600 470 ±9 ±333 220 ±15 ±200 100 ECE/RoHS PWA4815D-6W 87 48 36-75 ±12 ±250 100 WB1205D-6W 80 80 80 9 667 680 CE/RoHS WB1212D-6W 84 12 9-18 12 500 470 WB1212D-6W 84 12 9-18 12	Certificate	Model	(%)					Capacitiv
CE/RoHS WA1209D-6W 83 12 9-18 ±9 ±333 220 WA1215D-6W 86 12 9-18 ±12 ±250 100 CE/RoHS PWA2405D-6W 82 ±5 ±600 470 PWA240D-6W 86 24 ±9 ±333 220 PWA2415D-6W 86 24 ±9 ±333 220 PWA4805D-6W 88 24 ±9 ±333 220 PWA4809D-6W 89 ±9 ±333 220 PWA4812D-6W 87 ±9 ±333 220 PWA4812D-6W 87 ±9 ±333 220 18-75 ±15 ±200 100 18-75 ±12 ±250 100 WB1205D-6W 80 9 667 680 WB1212D-6W 84 12 9-18 12 50 470 WB124D-6W 86 WB1244V2D-6W 86 42 42				Nominal	Kange			
CE/RoHS WA1212D-6W 85 12 9-18 ±12 ±250 100 CE/RoHS PWA2405D-6W 86 24 ±15 ±200 100 CE/RoHS PWA2409D-6W 88 24 ±9 ±333 220 PWA2415D-6W 88 24 ±9 ±333 220 PWA4805D-6W 89 ±9 ±333 220 PWA4812D-6W 87 ±9 ±333 220 PWA4815D-6W 87 ±9 ±333 220 18-75 ±12 ±250 100 18-75 ±12 ±250 100 18-75 ±12 ±250 100 18-75 ±15 ±200 100 18-75 ±12 ±250 100 18-75 ±15 ±200 100 18-75 ±15 ±200 100 18-75 ±15 ±200 100 18 ±15 ±200								
WA1215D-6W 86 ±15 ±200 100	/							
PWA2405D-6W 82 #9 #333 220	CE/RoHS			12	9-18			
CE/RoHS PWA2409D-6W 88 PWA2412D-6W 86 PWA2415D-6W 88 PWA2415D-6W 88 PWA2415D-6W 88 PWA2415D-6W 89 PWA4809D-6W 89 PWA4812D-6W 88 PWA4815D-6W 88 PWA4815D-6W 88 PWA4815D-6W 88 PWA4815D-6W 88 PWA4815D-6W 82 PWA2415D-6W 84 PWB224D-6W 84 PWB224D-6W 84 PWB2409D-6W 82 PWB2409D-6W 82 PWB2409D-6W 82 PWB2415D-6W 86 PWB2415D-6W 87 PWB2409D-6W 87 PWB4809D-6W 85 PWB4809D-6W 85 PWB4815D-6W 87 PWB4815D-6W 88 PWB4		WA1215D-6W	86			±15	±200	100
CE/RoHS PWA2412D-6W 86 PWA2415D-6W 88 PWA2415D-6W 88 PWA2415D-6W 89 PWA4809D-6W 89 PWA4815D-6W 88 PWA4815D-6W 88 PWB1205D-6W 80 WB1209D-6W 82 WB1212D-6W 84 WB1215D-6W 86 WB1224D-6W 84 PWB2415D-6W 88 PWB244D-6W 84 PWB2415D-6W 86 PWB2415D-6W 86 PWB2415D-6W 86 PWB2415D-6W 86 PWB2412D-6W 86 PWB2415D-6W 87 PWB2424D-6W 87 PWB24805D-6W 87 PWB4805D-6W 87 PWB4805D-6W 87 PWB4805D-6W 87 PWB4815D-6W 88 PWB481		PWA2405D-6W	82			±5	±600	470
CE/RoHS PWA2412D-6W 86 24 (9-36) ±12 ±250 100 PWA2415D-6W 88 24 (9-36) ±15 ±200 100 CE/RoHS PWA4805D-6W 89 48 48 ±5 ±600 470 PWA4815D-6W 87 ±12 ±250 100 *** ±12 ±250 100 *** ±15 ±200 100 *** ±15 ±200 100 *** ±15 ±200 100 *** ±15 ±200 100 *** ±15 ±200 100 *** ±15 ±200 100 *** ±15 ±200 100 *** ±15 ±200 1000 *** ±15 ±200 1000 *** ±15 ±200 1000 *** ±15 ±200 1000 *** ±15 <t< td=""><td></td><td>PWA2409D-6W</td><td>88</td><td></td><td></td><td>±9</td><td>±333</td><td>220</td></t<>		PWA2409D-6W	88			±9	±333	220
PWA2415D-6W 88 PWA4805D-6W 89 PWA4812D-6W 87 PWA4815D-6W 88 BWB1205D-6W 80 WB1209D-6W 82 WB1212D-6W 84 WB1212D-6W 84 WB1212D-6W 86 WB1224D-6W 86 WB1224D-6W 84 PWB244v2D-6W 80 PWB244v2D-6W 80 PWB244v2D-6W 80 PWB2415D-6W 86 PWB2415D-6W 86 PWB241D-6W 87 PWB4805D-6W 83 PWB4809D-6W 85 PWB481D-6W 88 PWB481D-6W 88 PWB481D-6W 88 PWB481D-6W 88 PWB481D-6W 88 PWB481D-6W 88	CE/RoHS	PWA2412D-6W	86	24		±12	±250	100
PWA4809D-6W 89 ±9 ±333 220 PWA4812D-6W 87 ±9 ±333 220 18-75 ±12 ±250 100 ±15 ±200 100 WB1205D-6W 80 9 667 680 WB1212D-6W 84 9 667 680 WB1215D-6W 86 15 400 220 WB1224D-6W 84 24 250 100 PWB2405D-6W 80 4.2 1430 1000 PWB2409D-6W 86 9 667 680 PWB2412D-6W 86 9 667 680 PWB2415D-6W 86 9 667 680 PWB2424D-6W 86 9 667 680 PWB2424D-6W 87 15 400 220 24 250 100 15 400 220 24 250 100 15 400 220	•	PWA2415D-6W	88		(9-36)	±15	±200	100
PWA4809D-6W 89 ±9 ±333 220 PWA4812D-6W 87 ±9 ±333 220 18-75 ±12 ±250 100 ±15 ±200 100 WB1205D-6W 80 9 667 680 WB1212D-6W 84 9 667 680 WB1215D-6W 86 15 400 220 WB1224D-6W 84 24 250 100 PWB2405D-6W 80 4.2 1430 1000 PWB2409D-6W 86 9 667 680 PWB2412D-6W 86 9 667 680 PWB2415D-6W 86 9 667 680 PWB2424D-6W 86 9 667 680 PWB2424D-6W 87 15 400 220 24 250 100 15 400 220 24 250 100 15 400 220		DWA4805D-6W	83			+5	+600	470
CE/RoHS PWA4812D-6W 87 PWA4815D-6W 88 48 36-75 (18-75) ±12 ±250 100 CE/RoHS WB1205D-6W 80 WB1205D-6W 82 WB1212D-6W 84 WB1215D-6W 86 WB1215D-6W 86 WB1224D-6W 84 12 9-18 12 500 470 CE/RoHS PWB2405D-6W 80 PWB2405D-6W 80 PWB2412D-6W 86 PWB2415D-6W 86 PWB2415D-6W 87 24 18-36 PWB2415D-6W 86 PWB2424D-6W 87 9 667 680 CE/RoHS PWB2405D-6W 85 PWB2415D-6W 87 PWB4805D-6W 85 PWB4805D-6W 85 PWB4812D-6W 87 PWB4815D-6W 87 24 15 400 220 CE/RoHS PWB4815D-6W 85 PWB4815D-6W 87 PWB4815D-6W 87 48 36-75 (18-75) 12 500 470 15 400 220 20 20 15 400 220 20 24 250 100 20 25 1200 1000 20 26 75 1200 1000 20 27 25 1200 1000 20 28 26 1200 1000 20 29 667 680 20 20 20 1000 20 20 20 1000 20 20 20 1000 20 20 20 1000 20 20 20 1000 20 20 20 1000 20 20 20 1000 20 <td></td> <td></td> <td></td> <td>+</td> <td></td> <td></td> <td></td> <td></td>				+				
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WB1215D-6W 86 WB1224D-6W 84 PWB244v2D-6W 80 PWB2405D-6W 80 PWB2409D-6W 86 PWB2412D-6W 86 PWB2415D-6W 86 PWB2424D-6W 87 PWB4805D-6W 83 PWB4809D-6W 85 PWB4812D-6W 87 PWB4815D-6W 88 48 36-75 (18-75) 15 400 220 48 36-75 (18-75) 12 500 470 667 680 PWB4812D-6W 87 48 36-75 (18-75) 12 500 470 250 470 26 18-36 9 667 680 24 250 100 9 667 680 18-36 9 667 680 18-36 9 667 680 <td></td> <td>WB1209D-6W</td> <td>82</td> <td></td> <td rowspan="2">9-18</td> <td>9</td> <td>667</td> <td>680</td>		WB1209D-6W	82		9-18	9	667	680
WB1224D-6W 84 24 250 100 CE/RoHS PWB244v2D-6W 80 4.2 1430 1000 PWB2405D-6W 82 5 1200 1000 PWB2412D-6W 86 9 667 680 PWB2415D-6W 88 15 400 220 PWB2424D-6W 87 24 250 100 PWB4805D-6W 83 5 1200 1000 PWB4809D-6W 85 9 667 680 PWB4812D-6W 87 48 36-75 12 500 470 PWB4815D-6W 88 15 400 220	CE/RoHS	WB1212D-6W	84	12		12	500	470
PWB244v2D-6W 80 PWB2405D-6W 82 PWB2409D-6W 86 PWB2412D-6W 86 PWB2415D-6W 88 PWB2424D-6W 87 PWB4805D-6W 83 PWB4809D-6W 85 PWB4812D-6W 87 PWB4815D-6W 88 PWB4815D-6W 88 PWB4815D-6W 88 PWB4815D-6W 87 PWB4815D-6W 88		WB1215D-6W	86			15	400	220
PWB2405D-6W 82 PWB2409D-6W 86 PWB2412D-6W 86 PWB2415D-6W 88 PWB2424D-6W 87 PWB4805D-6W 83 PWB4809D-6W 85 PWB4812D-6W 87 PWB4815D-6W 88 PWB4815D-6W 88		WB1224D-6W	84			24	250	100
PWB2409D-6W 86 PWB2412D-6W 86 PWB2415D-6W 88 PWB2424D-6W 87 PWB4805D-6W 83 PWB4809D-6W 85 PWB4812D-6W 87 PWB4815D-6W 88 48 36-75 (18-75) 12 500 470 24 250 100 9 667 680 9 667 680 12 500 470 15 400 220		PWB244v2D-6W	80			4.2	1430	1000
CE/RoHS PWB2412D-6W 86 24 (9-36) 12 500 470 PWB2415D-6W 88 15 400 220 PWB2424D-6W 87 24 250 100 PWB4805D-6W 83 5 1200 1000 PWB4809D-6W 85 9 667 680 PWB4812D-6W 87 48 36-75 12 500 470 PWB4815D-6W 88 15 400 220		PWB2405D-6W	82			5	1200	1000
PWB2412D-6W 86 PWB2415D-6W 88 PWB2424D-6W 87 PWB4805D-6W 83 PWB4809D-6W 85 PWB4812D-6W 87 PWB4815D-6W 88 PWB4815D-6W 88 PWB4815D-6W 88	CE/Dalls	PWB2409D-6W	86	2.4	18-36	9	667	680
PWB2424D-6W 87 24 250 100 PWB4805D-6W 83 PWB4809D-6W 85 PWB4812D-6W 87 PWB4815D-6W 88 48 48 36-75 PWB4815D-6W 88	CE/NUH3	PWB2412D-6W	86	24	(9-36)	12	500	470
PWB4805D-6W 83 PWB4809D-6W 85 PWB4812D-6W 87 PWB4815D-6W 88 5 1200 1000 9 667 680 12 500 470 15 400 220		PWB2415D-6W	88			15	400	220
PWB4809D-6W 85 PWB4812D-6W 87 PWB4815D-6W 88 9 667 680 12 500 470 15 400 220		PWB2424D-6W	87			24	250	100
CE/RoHS PWB4812D-6W 87 48 36-75 (18-75) 12 500 470 PWB4815D-6W 88 15 400 220		PWB4805D-6W	83			5	1200	1000
PWB4812D-6W 87 48 12 500 470 PWB4815D-6W 88 15 400 220		PWB4809D-6W	85		26.75	9	667	680
PWB4815D-6W 88 15 400 220	CE/RoHS	PWB4812D-6W	87	48		12	500	470
PWB4824D-6W 87 24 250 100		PWB4815D-6W	88		(10 / 5)	15	400	220
		PWB4824D-6W	87			24	250	100
				-				
				1				

Dimensions First Angle Proj **Bottom View** Side View Single Pin Dual 1 GND GND 2 Vin Vin +Vo +Vo 3 no Pin 0٧ 4 -Vo 5 Note: All size units mm, Diameter of all terminal 0.8mm; Distance between all adjacent terminal 2.54mm; Isolation: 1500Vdc Weight: 11g

Note: The prefix "P" for 4:1 input range

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WA_P-6W & WB_P-6W Series



6w, wide input, isolated & regulated dual/single output dc-dc converter

Product P	rogram						
			Inp	ut		Output	
Certificate	Model	Eff (%)	Voltag	e(Vdc)	Vdc	mA	Max
		(%)	Nominal	Range	Nominal	Max	Capacitive Load (uF)
	WA1205P-6W	80			±5	±600	470
	WA1209P-6W	83			±9	±333	220
CE/RoHS	WA1212P-6W	85	12	9-18	±12	±250	100
	WA1215P-6W	86			±15	±200	100
	WA1224P-6W	85			±24	±125	100
	PWA2405P-6W	82			±5	±600	470
	PWA2409P-6W	88		10.20	±9	±333	220
CE/RoHS	PWA2412P-6W	86	24	18-36 (9-36)	±12	±250	100
	PWA2415P-6W	88		(= ==)	±15	±200	100
	PWA2424P-6W	86			±24	±125	100
	PWA4805P-6W	83			±5	±600	470
	PWA4809P-6W	89		36-75	±9	±333	220
CE/RoHS	PWA4812P-6W	87	48	(18-75)	±12	±250	100
	PWA4815P-6W	88		, , , , , , , , , , , , , , , , , , ,	±15	±200	100
	PWA4824P-6W	87			±24	±125	100
	WB1205P-6W	80		9-18	5	1200	1000
	WB1209P-6W	82			9	667	680
CE/RoHS	WB1212P-6W	84	12		12	500	470
	WB1215P-6W	86			15	400	220
	WB1224P-6W	84			24	250	100
	PWB244v2P-6W	80			4.2	1430	1000
	PWB2405P-6W	82			5	1200	1000
CE/RoHS	PWB2409P-6W	86	24	18-36	9	667	680
. ,	PWB2412P-6W	86		(9-36)	12	500	470
	PWB2415P-6W	88			15	400	220
	PWB2424P-6W	87			24	250	100
	PWB4805P-6W	83			5	1200	1000
	PWB4809P-6W	85		36-75	9	667	680
CE/RoHS	PWB4812P-6W	87	48	(18-75)	12	500	470
	PWB4815P-6W	88			15	400	220
	PWB4824P-6W	87			24	250	100

Dimen	sions	First Ang	gle Proj ⋲]
	<u> </u>	31.80		
1	2 3	9	• 11	
15.24		ttom Vie		
15	23 22	16		
/		•	•	
	<i>X</i>	22.86	/ /	
		: -! - \/:	71:	
	s	ide View	11	
	Ш	I	1 1:	4.10
	Pin	Single	Dual	
	2,3	GND	GND	
	22,23	Vin	Vin	
	9	NC	0V	
	11	NC	-Vo	
	14	+Vo	+Vo	
	16	0V	0V	
Note: All siz	e units m ı	m,		
		terminal (
2.54m		en all adja	cent termi	naı
	ion: 1500	Vdc		
Weigh	nt: 11g			

Note: The prefix $\ensuremath{^{\text{"P"}}}$ for 4:1 input range

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WE_P-6W & WF_P-6W Series



6w, wide input, isolated & regulated dual/single output dc-dc converter

Product Program							
			Inp	out		Output	
Certificate	Model	Eff		e(Vdc)	Vdc	mA	Max
		(%)	Nominal	Range	Nominal	Max	Capacitive Load (uF)
	WE1205P-6W	80			±5	±600	470
	WE1209P-6W	83			±9	±333	220
CE/RoHS	WE1212P-6W	85	12	9-18	±12	±250	100
	WE1215P-6W	86			±15	±200	100
	WE1224P-6W	85			±24	±125	100
	PWE2405P-6W	82			±5	±600	470
	PWE2409P-6W	88		40.26	±9	±333	220
CE/RoHS	PWE2412P-6W	86	24	18-36 (9-36)	±12	±250	100
	PWE2415P-6W	88		(3 33)	±15	±200	100
	PWE2424P-6W	86			±24	±125	100
	PWE4805P-6W	83			±5	±600	470
	PWE4809P-6W	89		36-75	±9	±333	220
CE/RoHS	PWE4812P-6W	87	48	(18-75)	±12	±250	100
	PWE4815P-6W	88		(==)	±15	±200	100
	PWE4824P-6W	87			±24	±125	100
	WF1205P-6W	80		9-18	5	1200	1000
	WF1209P-6W	82			9	667	680
CE/RoHS	WF1212P-6W	84	12		12	500	470
	WF1215P-6W	86			15	400	220
	WF1224P-6W	84			24	250	100
	PWF2405P-6W	82			5	1200	1000
	PWF2409P-6W	86]	18-36	9	667	680
CE/RoHS	PWF2412P-6W	86	24	(9-36)	12	500	470
	PWF2415P-6W	88]		15	400	220
	PWF2424P-6W	87			24	250	100
	PWF4805P-6W	83]		5	1200	1000
	PWF4809P-6W	85		36-75	9	667	680
CE/RoHS	PWF4812P-6W	87	48	(18-75)	12	500	470
	PWF4815P-6W	88		,	15	400	220
	PWF4824P-6W	87			24	250	100

Dimen	sions	First Ang	gle Proj 🗧	$\Rightarrow \phi$
	l.	31.80		
		01.00	1	<u> </u>
	2 3	9	11	
15.24	Bot	ttom Vie	w	20.30
	23 22	16 •	14	
Í		22.86	/_/	<u>-</u>
		22.80		
				<u>~</u>
	s	ide View		11.50
	Ш			, I.10 1.10
	• •	-	• +	_ 4
	Din	Cinala	Dual]
	Pin 2,3	Single GND	Dual GND	
	22,23	Vin	Vin	
	9	NC	οv	
	11	NC	-Vo	
	14	+Vo	+Vo	
	16	0V	0V	
Note: All siz	e units m ı	m.		
Diame	eter of all	terminal (
Distar 2.54n	nce betwe nm;	en all adja	cent tern	ninal
Isolat	ion: 3000	Vdc		
Weigl	ht: 11g			

Note: The prefix "P" for 4:1 input range

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File Release Notes

DBN-404 Technical Data Sheet Version



No.	Version	Data	Description
1	V0	2011/11/01	First release
2	V1	2013/08/24	The fifth page error correction "-Vo(11) to-Vo(16)"
3	A/0	2016/07/01	Fixed bug
4	A/1	2017/10/19	Increase product model "PWB244v2P-6W" "PWB244v2D-6W"
5			

All Delus Corporation's products are manufactured, assembled and tested utilizing ISO9001 quality systems. For information regarding Delus Corporation and its products please see website: $\underline{www.delus-power.com}$

Delus Guangzhou Electronic Technology CO.,LTD

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^{1.} All data in addition to particular things, are Ta = 25°C, humidity<75%, nominal input voltage and output measured at rated load;
2. Non-standard models with some of the following indicators may be different from the specific circumstances of the Secretary to direct contact with me;

^{3.} In the use of this manual, if some of them do not quite understand terms please refer to our << DC/DC Converter Application Guide>>;
4. The Company focused on technological improvements, product specifications and parameter updates without notice, to pay attention to the latest information on website.

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