

- Industry Standard 2" x 1" Footprint
- Six Sided Shielding
- Safety Agency Certifications
- 9-36V or 18-75VDC Input

Key Market Segments & Applications

Telecom
Datacom
Process Control

PXD30W Series

Single and Dual output 30W
DC-DC converters

PXD30W Features and Benefits

Features	Benefits
• Safety Certification	• Easier system approvals
• Wide range input	• Less parts to inventory
• Six sided shielding	• Reduced radiated noise

Specifications		Single Output	Dual Output
ITEMS			
Max Output Power		30W	
Voltage Accuracy		±1%	
Voltage Adjustment		±10%	None
Minimum Load		None	
Line Regulation		±0.2%	
Load Regulation		±0.5%	±1%
Cross Regulation (25% to 100%)		-	±5%
Ripple and Noise		<5.1V output: 100mV, 12-15V output: 150mV	
Start up time		30ms	
Remote on/off		Positive Logic: ON: Open or 3-12V, OFF Short or <1.2V	
		Negative Logic: ON: Short or <1.2V, OFF: Open or 3-12V	
Temperature Coefficient		<+/-0.02%/°C	
Operating Temperature		-40°C to +85°C, derating necessary above 50°C	
Maximum Case Temperature		+105°C (Overtemperature Protection +115°C)	
Storage Temperature		-55°C to +125°C	
Thermal Shock		MIL-STD-810F	
Relative Humidity (non condensing)		5 to 95%	
Transient Response (25% step load change)		250μs recovery	
Overvoltage Protection (Zener clamp)		5V: 6.2V, 12V: 15V, 15V: 18V	
Overcurrent and Short Circuit Protection		Typically at 150%, hiccup with self recovery	
Input Surge Voltage (Maximum for 100ms)		24V input: 50V, 48V input: 100V	
Reflected input ripple (peak to peak)		20mA	
Isolation Voltage		1600VDC minimum	
Isolation Resistance		10^9 Ω minimum	
Isolation Capacitance (max)		1500pF	
Typical Switching Frequency (Fixed)		430kHz	
MTBF (BELLCORE TR-NWT-000332)		3,163,000 hours	
Vibration		MIL-STD-810F	
Conducted and Radiated Emissions	(1)	EN55022 Level A	
Immunity	(2)	EN61000-4-2, -3, -4, -5, -6 Pref Criteria A	
Safety Agency Certifications		IEC/UL/CSA/EN 62368-1, 60950-1, CE Mark	
Size mm (L x W x H)		50.8 x 25.4 x 10	
Weight (g)		30.5	
Warranty (yrs)		3	

Model Selector

Output Volt (V)	Output Curr (A)	Output Power (W)	Input Volt (V)	Model	Eff.(%)
Single Outputs					
3.3V	7.5A	24.75W	9 - 36VDC	PXD30-24WS3P3	86%
3.3V	7.5A	24.75W	18 - 75VDC	PXD30-48WS3P3	86%
5V	6.0A	30W	9 - 36VDC	PXD30-24WS05	88%
5V	6.0A	30W	18 - 75VDC	PXD30-48WS05	88%
12V	2.5A	30W	9 - 36VDC	PXD30-24WS12	89%
12V	2.5A	30W	18 - 75VDC	PXD30-48WS12	90%
15V	2.0A	30W	9 - 36VDC	PXD30-24WS15	89%
15V	2.0A	30W	18 - 75VDC	PXD30-48WS15	91%
Dual Outputs					
±5V	±3.0A	30W	9 - 36VDC	PXD30-24WD05	88%
±5V	±3.0A	30W	18 - 75VDC	PXD30-48WD05	88%
±12V	±1.25A	30W	9 - 36VDC	PXD30-24WD12	87%
±12V	±1.25A	30W	18 - 75VDC	PXD30-48WD12	88%
±15V	±1.0A	30W	9 - 36VDC	PXD30-24WD15	87%
±15V	±1.0A	30W	18 - 75VDC	PXD30-48WD15	88%

Specification Notes:

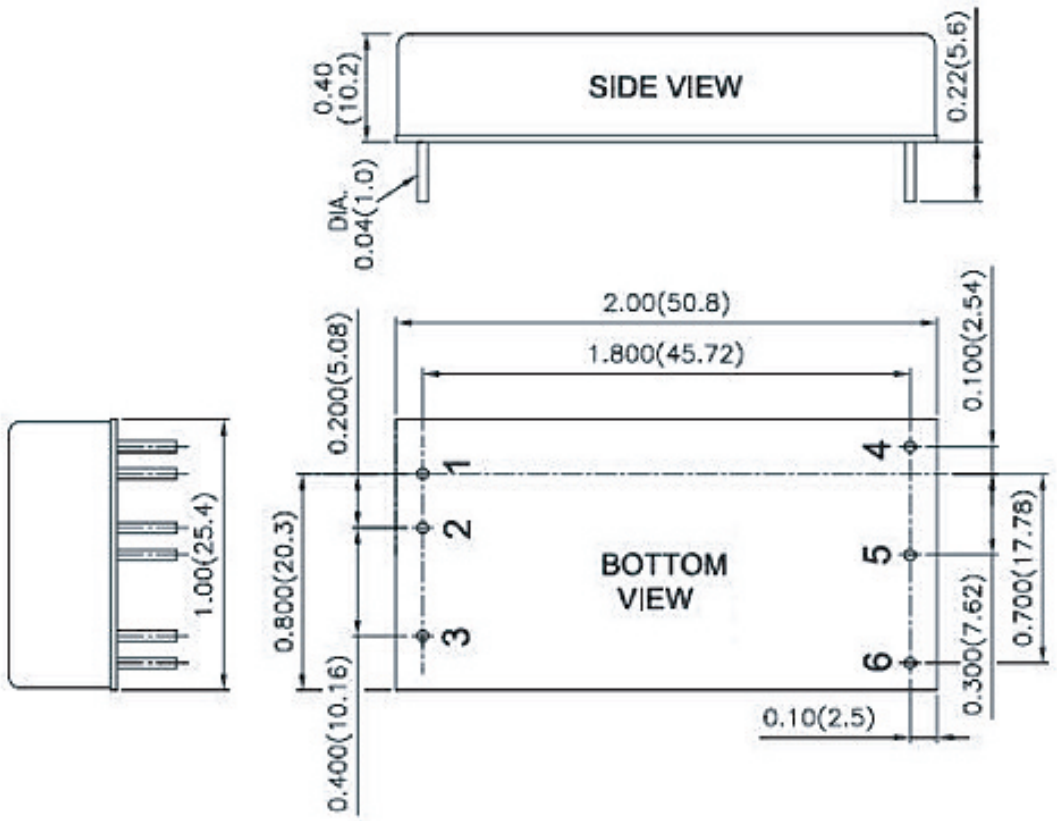
(1) With external ceramic capacitor (24V: 4.7uF, 48V: 2.2uF) connected across input pins

(2) For EN61000-4-4 & -5 compliance fit external electrolytic capacitor (24V: 330uF, 48V: 220uF) connected across input pins

Options	Single Output	Dual Output
Suffix	Function	Function
No Suffix	Positive Logic & Output Trim	Positive Logic (No trim function)
N	Negative Logic & Output Trim	Negative Logic (No trim function)

Add suffix for N option, Example PXD30-48WS12-N

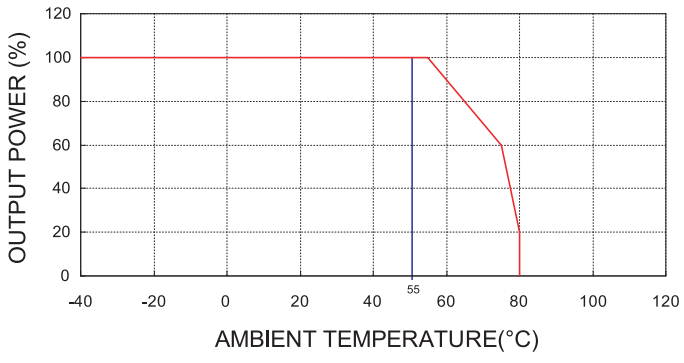
Outline Drawing PXD30W Series



Pinout

Pin#	Function	
	Single Output	**Dual Output**
1	+ Input	+ Input
2	– Input	– Input
3	Remote On/Off	Remote On/Off
4	+ Output	+ Output
5	– Output	Common
6	Trim	– Output

Derating Curve PXD30W Series





TDK-Lambda France SAS
3 Avenue du Canada
Parc Technopolis
Bâtiment Sigma
91940 les Ulis
France
Tel: +33 1 60 12 71 65
Fax: +33 1 60 12 71 66
france@fr.tdk-lambda.com
www.emea.lambda.tdk.com/fr



Italy Sales Office
Via Giacomo Matteotti 62
20092 Cinisello Balsamo (MI)
Italy
Tel: +39 02 61 29 38 63
Fax: +39 02 61 29 09 00
info.italia@it.tdk-lambda.com
www.emea.lambda.tdk.com/it



Netherlands
info@nl.tdk-lambda.com
www.emea.lambda.tdk.com/nl



TDK-Lambda Germany GmbH
Karl-Bold-Strasse 40
77855 Achern
Germany
Tel: +49 7841 666 0
Fax: +49 7841 5000
info.germany@de.tdk-lambda.com
www.emea.lambda.tdk.com/de



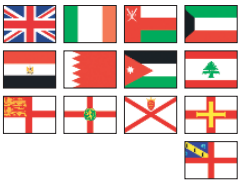
Austria Sales Office
Aredstrasse 22
2544 Leobersdorf
Austria
Tel: +43 2256 655 84
Fax: +43 2256 645 12
info@at.tdk-lambda.com
www.emea.lambda.tdk.com/at



Switzerland Sales Office
Eichtalstrasse 55
8634 Hombrechtikon
Switzerland
Tel: +41 44 850 53 53
Fax: +41 44 850 53 50
info@ch.tdk-lambda.com
www.emea.lambda.tdk.com/ch



Nordic Sales Office
Haderslevvej 36B
DK-6000 Kolding
Denmark
Tel: +45 8853 8086
info@dk.tdk-lambda.com
www.emea.lambda.tdk.com/dk



TDK-Lambda UK Ltd.
Kingsley Avenue
Ilfracombe
Devon EX34 8ES
United Kingdom
Tel: +44 (0) 12 71 85 66 66
Fax: +44 (0) 12 71 86 48 94
info@uk.tdk-lambda.com
www.emea.lambda.tdk.com/uk



TDK-Lambda Ltd.
1 Alexander Yanai
Segula
Petah-Tikva
Israel
Tel: +9 723 902 4333
Fax: +9 723 902 4777
info@tdk-lambda.co.il
www.emea.lambda.tdk.com/il



C.I.S.
Commercial Support:
Tel: +7 (495) 665 2627
Technical Support:
Tel: +7 (812) 658 0463
info@tdk-lambda.ru
www.emea.lambda.tdk.com/ru

Local Distribution

www.emea.lambda.tdk.com