



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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30W Single and Dual Output DC-DC Converters

Features

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



Key Market Segments & Applications

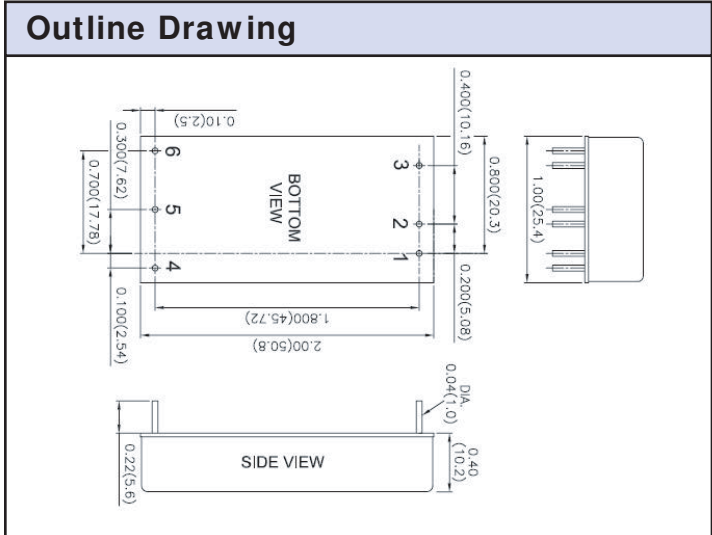


| Specifications | | |
|---|---|-------------|
| Model | Single Output | Dual Output |
| Max Output Power | | 30W |
| Voltage Accuracy | | ±1% |
| Voltage Adjustment | ±10% | None |
| Minimum Load | | None |
| Line Regulation | | ±0.2% |
| Load Regulation | ±0.5% | ±1% |
| Cross Regulation (25% to 100%) | - | ±5% |
| Ripple and Noise (peak to peak) | <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 to +85°C, derating necessary above 50°C | |
| Maximum Case Temperature | 105°C (Overtemperature Protection 115°C) | |
| Storage Temperature | -55 to 125°C | |
| Thermal Shock | MIL-STD-810F | |
| Relative Humidity (non condensing) | 5 to 95% | |
| Transient Response (25% step load change) | 250us recovery | |
| Overvoltage Protection (Zener clamp) | 3.3V: 3.9V, 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 | 109 Ohms 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) | See Installation Diagrams | |
| Immunity (2) | EN61000-4-2, -3, -4, -5, -6 Pref Criteria A | |
| Safety Agency Certifications | IEC60950-1, UL60950-1, EN60950-1, CE Mark | |
| Size (L x W x H) | 2x1x0.4" | |
| Weight | 1.07 oz (30.5g) | |
| Warranty | Two Year | |

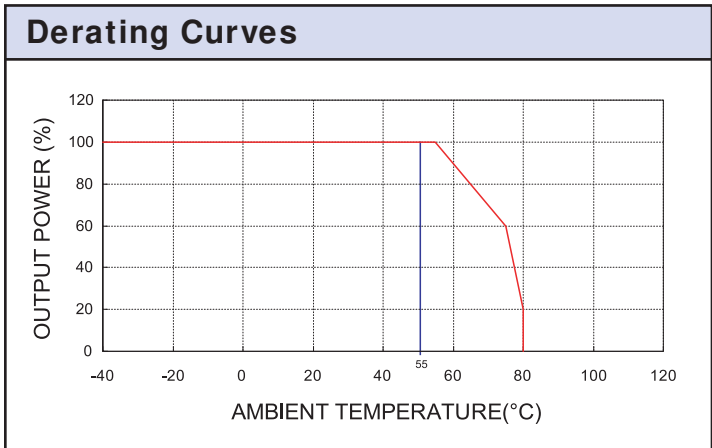
Notes:

- (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

| 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% |



| 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 |



| Remote On/Off Option | |
|----------------------|----------------|
| Suffix | Function |
| No Suffix | Positive Logic |
| -N | Negative Logic |

| Heat Sink (0.22" high) | |
|------------------------|---------------------------------|
| HAPXD | (includes thermal adhesive pad) |
| HAPXBDCLIP | (two clips required when used) |

| Other Industrial Products | |
|---------------------------------------|---|
| PXD10, 20 | 10-20W, 12V, 24V, 48V input 2x1" DC-DC |
| PXE20, 30 | 20-30W, 12V, 24V, 48V input 2x1.6" DC-DC |
| PXF30-40 | 30-40W, 12V, 24V, 48V input 2x2" DC-DC |
| CC-E | 1.5 - 25W, 5V, 12V, 24V & 48V input DC-DC |
| Non Wide Range Input Modes (W) | |
| PXD30-12Sxx | 30W, 9-18VDC 2x1" DC-DC |
| PXD30-12Dxx | 30W, 9-18VDC 2x1" DC-DC |
| PXD30-24Sxx | 30W, 18-36VDC 2x1" DC-DC |
| PXD30-24Dxx | 30W, 18-36VDC 2x1" DC-DC |
| PXD30-48Sxx | 30W, 36-75VDC 2x1" DC-DC |
| PXD30-48Dxx | 30W, 36-75VDC 2x1" DC-DC |

For Additional Information, please visit us.tdk-lambda.com/lp/products/px-series.htm

