

Altronix[®] *PDS8/PDS8CB Dual Input Power Distribution Module* PDS8/PDS8CB

Overview:

PDS8/PDS8CB dual input power distribution module is designed to steer the power from either two (2) low voltage AC or DC power sources. This power is distributed over a total of eight (8) fuse/PTC protected outputs. For use with Maximal, eFlow, ULX, and Trove series of power supplies.

Specifications:

*UL 294 Levels: Attack: I, Endurance: IV, Line security: I, Stand-by power: I. **ULC-S319: Class 1.

| Maximum Output of Altronix Power Supplies: DC Power Supplies | | |
|--|-----------------------|--------------------------------|
| | | |
| AL300ULXB2 | 12VDC or 24VDC | 2.5A |
| AL400ULXB2 | 12VDC or 24VDC | 12VDC @ 4A or 24VDC @ 3A |
| AL600ULXB | 12VDC or 24VDC | 6A |
| AL1012ULXB | 12VDC | 10A |
| AL1024ULXB2 | 24VDC | 10A |
| eFlow3NB | 12VDC or 24VDC | 2A |
| eFlow4NB | 12VDC or 24VDC | 4A |
| eFlow6NB | 12VDC or 24VDC | 6A |
| eFlow102NB | 12VDC | 10A |
| eFlow104NB | 24VDC | 10A |
| VR6 | 5VDC or 12VDC | 6A |
| | AC Power Supplies | |
| UL Recognized Power Supply | Output Voltage | Max. Output Current |
| T2428100 | 24VAC or 28VAC | 24VAC @ 4A or 28VAC @ 3.5A |
| T2428175 | 24VAC or 28VAC | 24VAC @ 7.25A or 28VAC @ 6.25A |
| T2428300 | 24VAC or 28VAC | 24VAC @ 14A or 28VAC @ 12.5A* |

Maximum Output of Altronix Power Supplies

*Total load must not exceed 10A.

Installation Instructions:

Wiring methods shall be in accordance with the National Electrical Code/NFPA 70/NFPA 72/ANSI, with Canadian Electrical Code CSA C22.1, and with all local codes and authorities having jurisdiction. Product is intended for indoor use only and should be installed by qualified personnel.

- 1. Mount PDS8/PDS8CB in the desired location/enclosure.
- 2. Ensure all output jumpers [OUT1 OUT8] are placed in the OFF (center) position marked [•].
- 3. Connect low voltage AC or DC power supplies to terminals marked [+ IN1 –], [+ IN2 –] (*Fig. 1, pg. 2, Fig. 2 pg. 2*). Note: You can not combine AC and DC power supplies.
- Set each output [OUT1 OUT8] to route power from power supply 1 or 2 (jumper position 1 or 2) (*Fig. 1, pg. 2, Fig. 2 pg. 2*). Note: Measure output voltage before connecting devices. This helps avoiding potential damage.
- 5. Turn power off before connecting devices.
- 6. Connect devices to terminal pairs 1 to 8, marked [P (Positive) OUT1-OUT8, N (Negative)] (Fig. 1, pg. 2, Fig. 2 pg. 2).
- Note: For DC devices carefully observe polarity. For AC devices polarity is not observed.
- 7. Turn main power on after all devices have been connected.

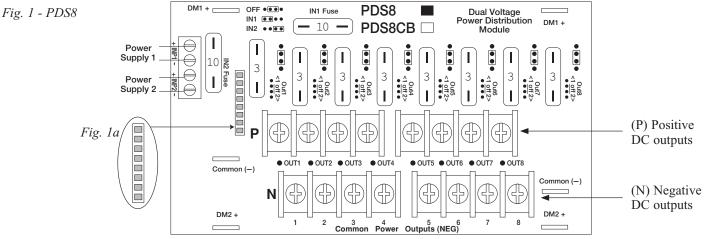
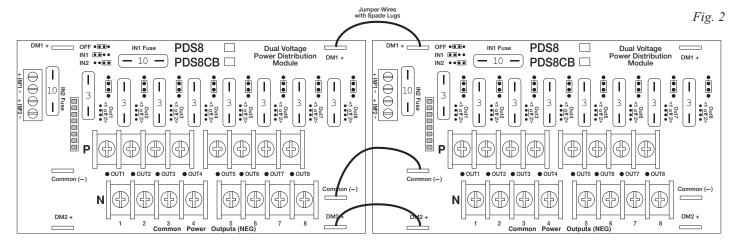


Fig. 1a - Connector plug facilitates quick installation with optional VR6 voltage regulator module (see pg. 2). CAUTION: To avoid risk of electric shock or fire hazard, replace fuses with the same type and rating: Input fuses: 10A/32V, Output fuses: 3A/32V.

Daisy Chaining Two (2) PDS8/PDS8CB Dual Output Power Distribution Modules:

Use 18 AWG or larger UL Listed wire equipped with 1/4" UL Recognized quick connect terminals rated for proper voltage/ current for all jumper connections.

- 1. Connect first PDS8/PDS8CB board's spade lug marked [DM1+] to the second PDS8/PDS8CB board's spade lug marked [DM1+] (*Fig. 2, pg. 2*).
- Connect first PDS8/PDS8CB board's spade lug marked [Common (-)] to the second PDS8/PDS8CB board's spade lug marked [Common (-)] (*Fig. 2, pg. 2*).
- 3. Connect first PDS8/PDS8CB board's spade lug marked [DM2+] to the second PDS8/PDS8CB board's spade lug marked [DM2+] (*Fig. 2, pg. 2*).
- 4. Complete steps 4-8 from page 1.



VR6 - Voltage Regulator

Overview:

VR6 voltage regulator is designed to convert a 24VDC input into a regulated 5VDC or 12VDC output. **Refer to VR6 Installation Intructions Rev. 050517.**

Power Input / Output:

• Input: 24VDC @ 1.75A – Output: 5VDC @ 6A. Input: 24VDC @ 3.5A – Output: 12VDC @ 6A.

Output:

- 5VDC or 12VDC regulated output.
- Output rating 6A max.
- Surge suppression.

Specifications:

LED Indicators:

• Input and output LEDs.

Electrical:

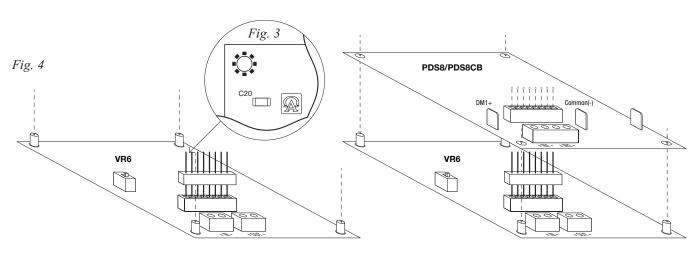
- Operating temperature: 0°C to 49°C ambient.
- Humidity: 20 to 85%, non-condensing.

Mechanical:

- Product weight (approx.): 0.4 lbs. (0.18 kg).
- Shipping weight (approx.): 0.5 lbs. (0.23 kg).

Connecting PDS8/PDS8CB to VR6:

- 1. Mount VR6 in the desired location/enclosure.
- 2. Plug-in male 8-pin connector to female 8-pin receptacle on VR6 board (Fig. 4, pg. 3).
- 3. Fasten standoffs (Fig. 4, pg. 2). Use metal standoff over mounting hole with star pattern (Fig. 3, pg. 3).
- 4. Align 8-pin male connector with female receptacle of PDS8/PDS8CB, then mount (Fig. 4, pg. 3, Fig 1a, pg. 2).
- 5. Connect 24VDC power supply to terminal marked [+IN1 –] of PDS8/PDS8CB (Fig. 4, pg. 3).
- 6. Select output voltage 5VDC or 12VDC using switch [S1] on VR6.
- 7. Complete steps 4-8 from page 2.



Notes:

