

PDP 2.0 User's Guide

Revision 1.0



CTR Electronics

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1. Device description

The CTR Electronics PDP 2.0 is a power distribution device with 24 ATO-size channels, multiple input angles, and compatibility with 4 AWG and 6 AWG wire. All 24 breaker slots support ATO form factor for breakers and fuses.

1.1. Kit Contents

- (1x) PDP 2.0
- (1x) PDP 2.0 Hardware Kit
 - o (2x) Battery Input Terminal Cover
 - o (2x) 6mm Split (Lock) Washers
 - o (2x) M6 x 1 Bolts (10mm Length) Socket Head Cap Screws



1.3. Electrical/Mechanical Specifications

The PDP 2.0 has been thoroughly tested with a nominal voltage of 12-24V at up to 120A. Actual nominal voltage and current is dependent on the power supply, breakers/fuses and the devices being powered via the PDP 2.0. The PDP 2.0 can theoretically withstand outputs of up to 600V at 40A.

1.4. General/Mechanical Specifications

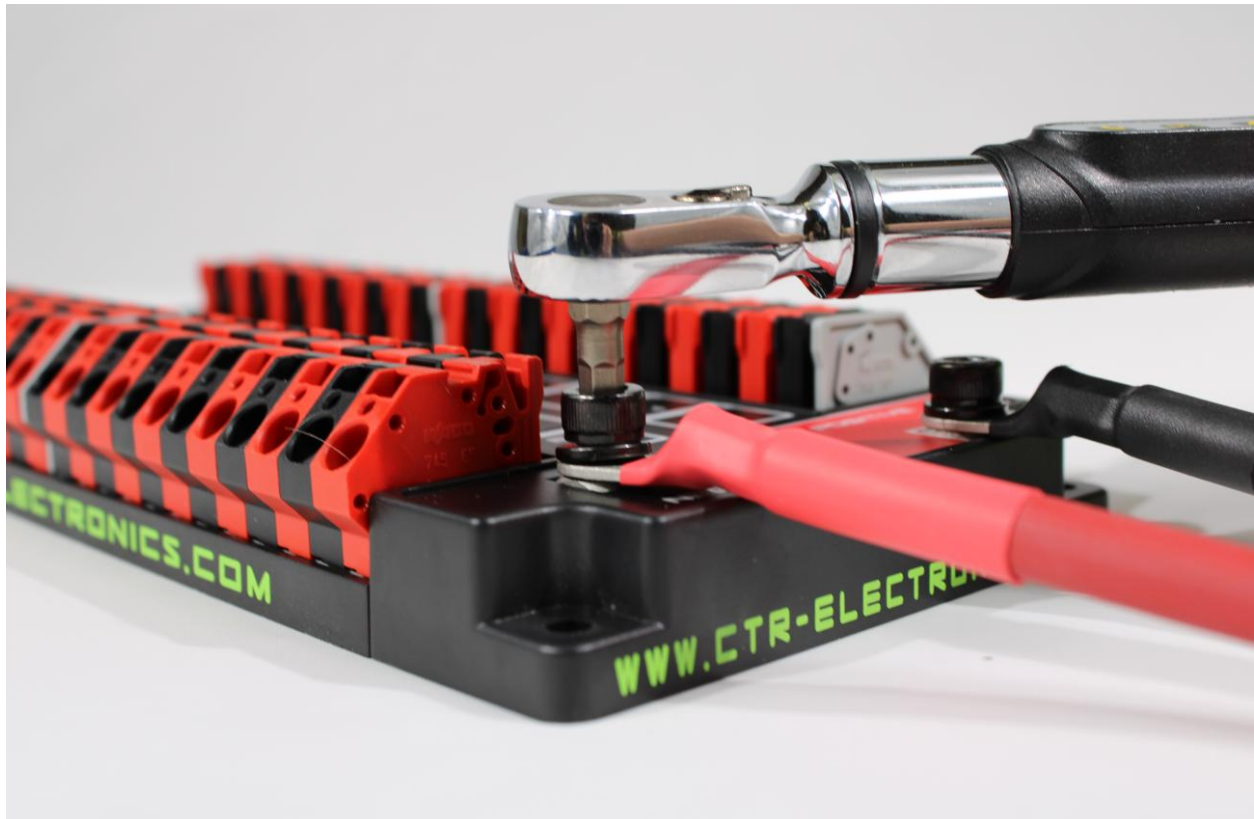
Description	Without Snap Action Breakers	With Snap Action Breakers
Outside Dimensions (W x H x L)	4.08" x 1.40" x 9.21"	4.09" x 1.70" x 9.21"
Weight	1.20 lbs (w/o breakers, screws or wires)	
Input Max AWG	4 AWG	
Input Interface	2x terminal stand-offs for M6 x 1 (10mm Length) bolt	
Input Bolt Torque Spec	2.5 Nm	
Output Max AWG	10 AWG	
Output Interface	Lever-actuated clamping WAGOs	
Breaker/Fuse Compatibility	ATO form factor	

2. Installation

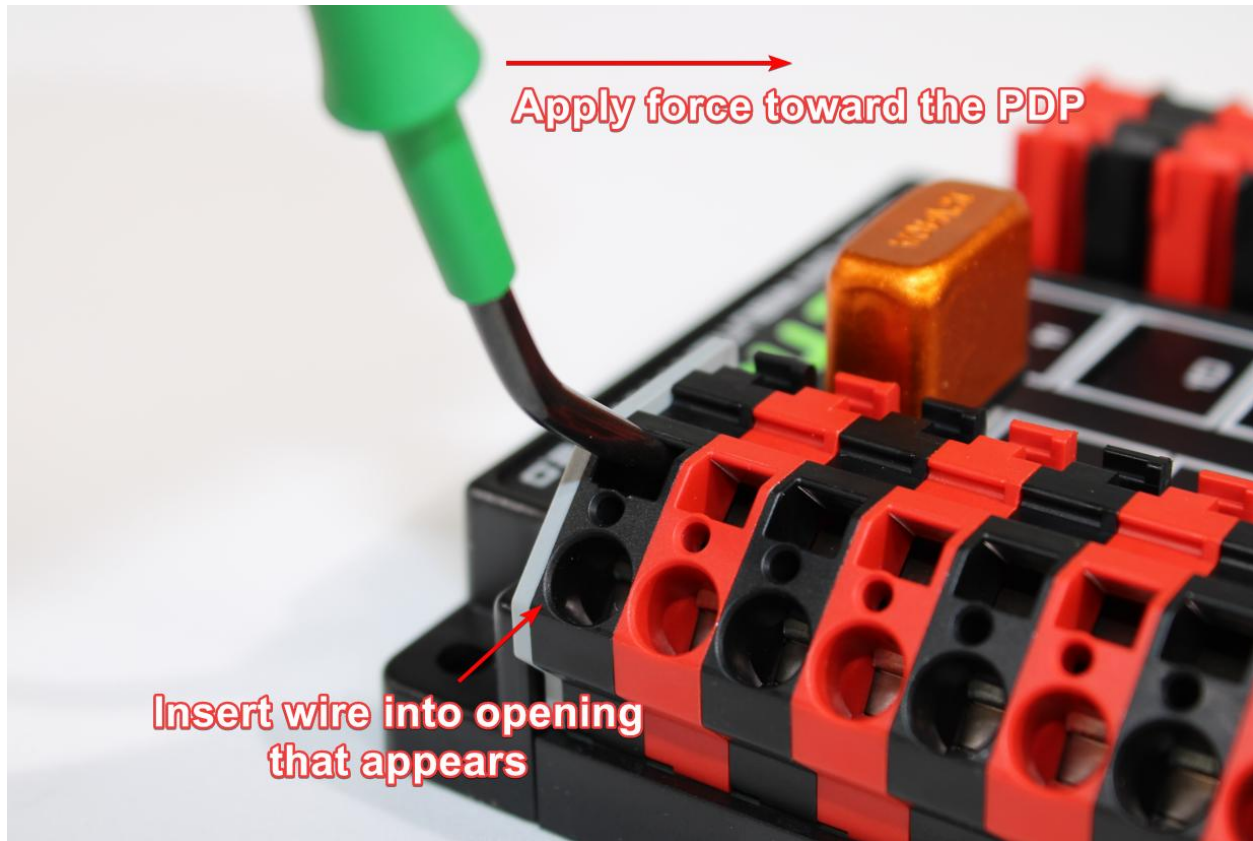
2.1. Wiring the PDP 2.0

Begin with placing the input wire terminals on the exposed stand-offs so that they sit flush. With the terminals flush, add the split washer and secure with an M6 x 1 (10mm) bolt. Tighten to snug or to 2.5Nm of torque.

It is not recommended to exceed 2.5Nm of torque or permanent damage could occur.



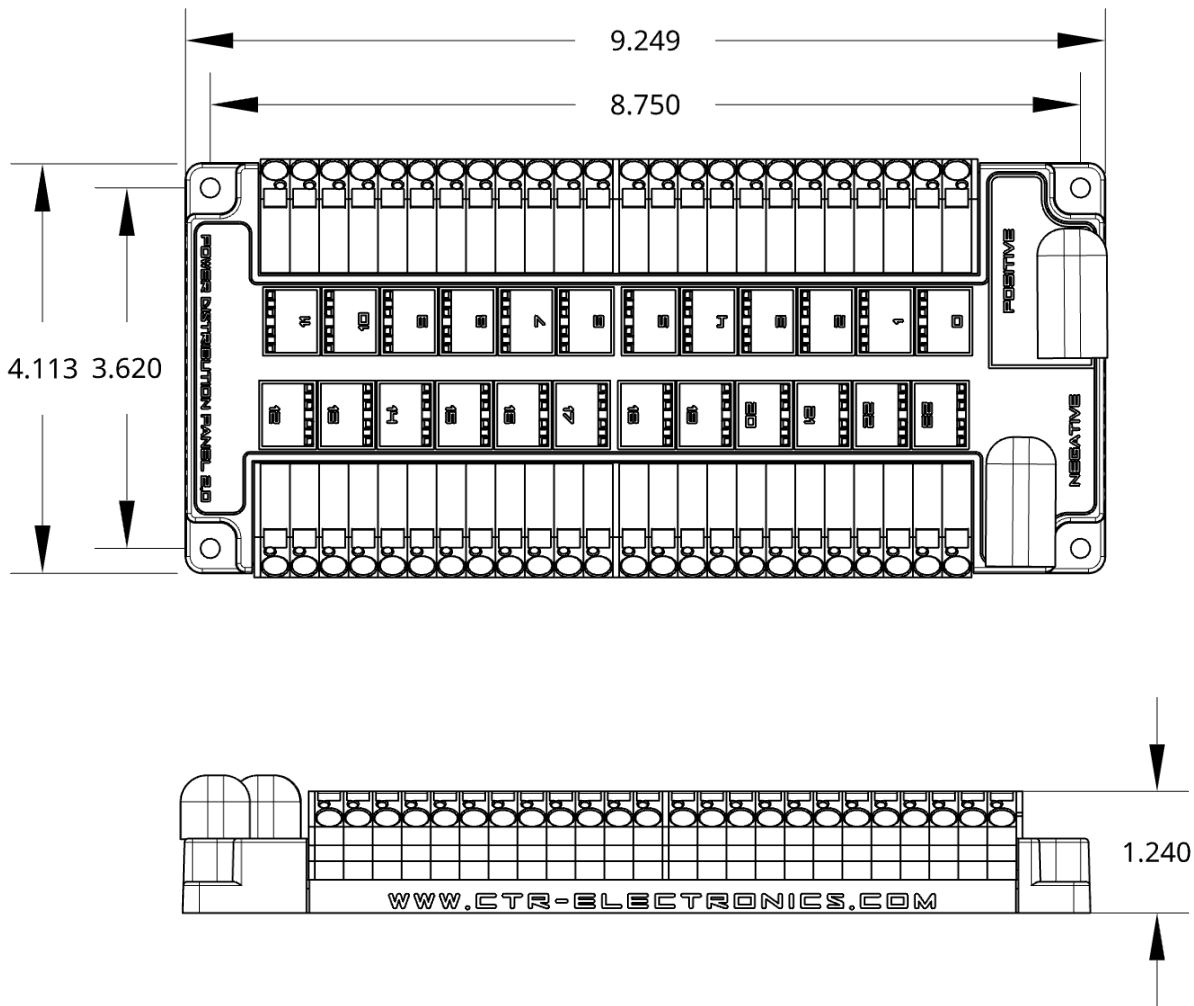
The PDP 2.0 has 24 lever actuated WAGO slots that can be used for wiring outputs. These slots support a maximum of 10 AWG wire and a recommended minimum of 22 AWG wire. To insert wire into one of the positive or negative outputs, insert a PDP level tool (or other **sturdy** flat edge) into the top slot.



The flat edge should sit flush toward the top of the slot. While applying a small amount of pressure into the PDP (to prevent the tool from “skipping” out of the slot), pry the slot open, **pushing toward the PDP**. You should be able to feel and see an area where wire can be inserted in the circular cutouts. Insert wire that is stripped to 3/8”.

Improperly stripped wire may result in excessive current draw and device power failures. Ensure wire is stripped to 3/8” and that wire is firmly clamped inside of the WAGO

5. Mechanical Drawings



6. Revision History

Revision	Date	Description
1.0	27-Jan-2025	Initial Creation.