



Voltage Regulation & Distribution Package

VRD



About the TPD-VRD

The TPD-VRD combines a hardwired 120/240V split-phase voltage regulator with a TPD smart distribution panel. Each package brings together voltage regulation, surge protection, and EMI/RFI filtering for connected equipment.

Choose an 80A or 100A input-breaker regulator configuration, paired with a 12-space or 24-space distribution panel.

Voltage Regulation Feeding Smart Distribution

The TPD voltage regulator supplies regulated power to the distribution panel. An internally mounted TPX surge protector with EMI/RFI filtering connects to both hot legs through a dedicated two-pole breaker, with additional connections to neutral and ground. The SPD occupies two panel spaces, leaving the remaining spaces available for Eaton AbleEdge smart breakers.

The 80A regulator configuration provides 15.36 kVA capacity with a maximum output of 64A. The 100A configuration provides 19.2 kVA capacity with a maximum output of 80A.

Specifications

Voltage Correction Time

8 ms (1/2 line cycle) typical

Input Range & Output Regulation

Wide input range 120/240V (+/-20%)* and precise output regulation 120/240V (+/-2.5%) maintains stable voltage for connected equipment.

Power Efficiency

98% or higher typical
(for load of 50 to 100%)

System Status Indicator

Green LED ON: Normal operation

Amber LED ON: Bypass operation

Red LED ON: Fault

VR Dimensions

Stud side: 50"H x 14.25"W x 4.5"D

Front Plate: 51" H x 15.25"W x 4.5"D

Panel Dimensions (H x W x D):

TPD-PNL-12S-AHT: 16.75" x 14.31" x 3.88"

TPD-PNL-24S-AHT: 23" x 14.31" x 3.88"

Package Configurations

TPD-VRD-80A-12S

80A voltage regulator with a 12 space distribution panel.

80A Input, Maximum output: 64A / 15.36 kVA.

TPD-VRD-80A-24S

80A voltage regulator with a 24 space distribution panel.

80A Input, Maximum output: 64A / 15.36 kVA.

TPD-VRD-100A-12S

100A voltage regulator with a 12 space distribution panel.

100A Input, Maximum output: 80A / 19.2 kVA.

TPD-VRD-100A-24S

100A voltage regulator with a 24 space distribution panel.

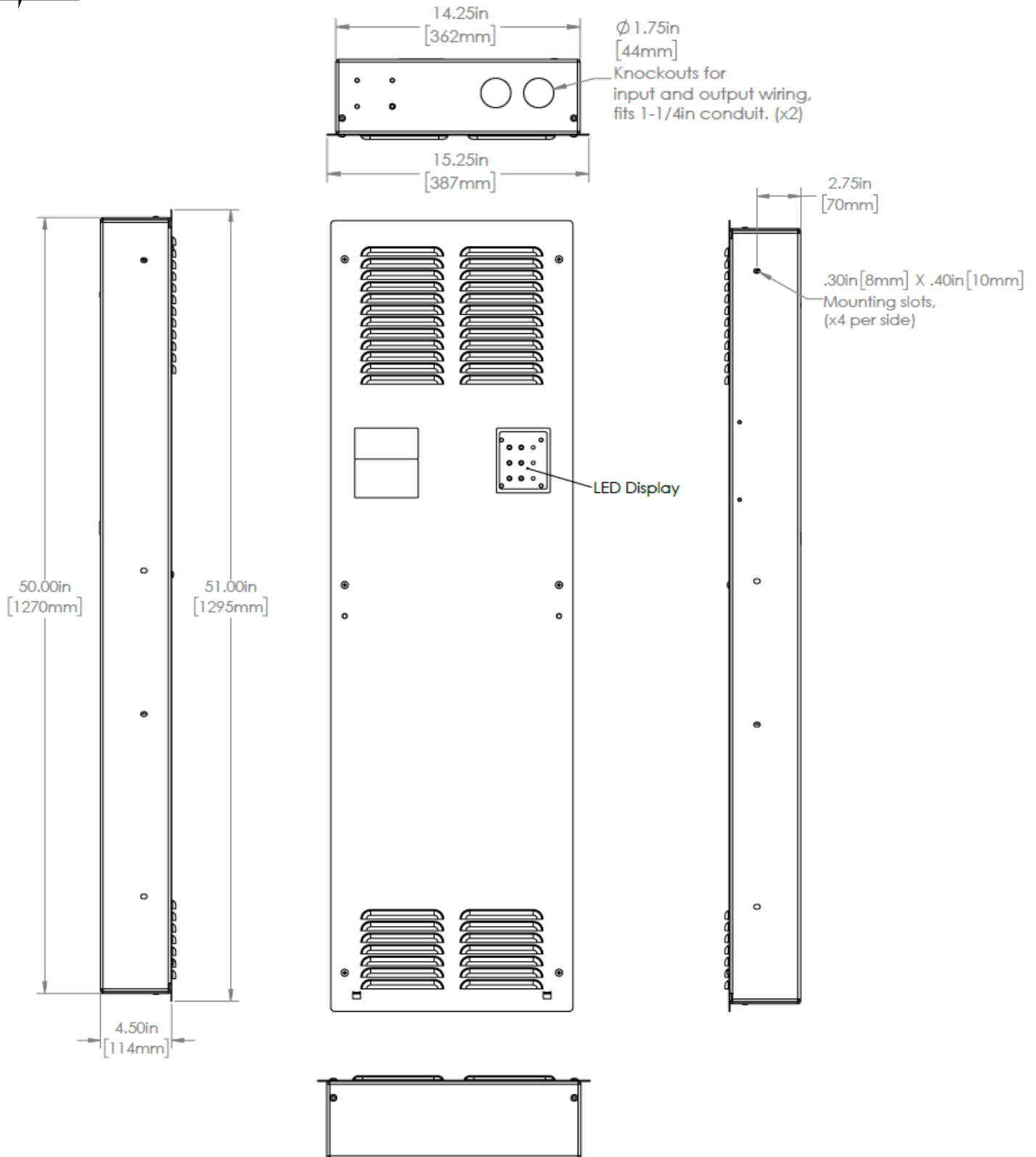
100A Input, Maximum output: 80A / 19.2 kVA.

Call Technical Support at **717-436-2856** or email info@tpdsurge.com
www.TransientProtectionDesign.com





In-Wall Voltage Regulation Dimensions



Note: The TPD-VR-W series is available in multiple configurations: 50A, 80A, and 100A!

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