



In-Wall Voltage Regulator & Power Conditioner

VR-W

Automatically regulates voltage and conditions power to help reduce voltage-related lockups, glitches, and equipment disruptions.

In-Wall Voltage Regulator & Power Conditioner

The TPD-VR-W automatically regulates incoming Voltage to help reduce equipment disruptions caused by voltage fluctuations. Designed to save space in installations, it fits between wall studs, and brings voltage regulation to installations where space matters.

Use the VR-W with lighting panels, breaker panels, and dedicated panels serving sensitive electronics, including video walls.

Consistent Power for Sensitive Electronics

When incoming voltage rises or falls within the regulator's operating range, the VR-W adjusts the output to maintain a consistent voltage level. This helps reduce voltage-related lockups, glitches, and interruptions in connected equipment.

Specifications

Design Topology

High-performance PWM voltage regulator operating at 20 kHz

Voltage Correction Time

8 ms (1/2 line cycle) typical

Input Range & Output Regulation

Wide input range 120V (+/-20%)* and precise output regulation 120V (+/-2.5%) provides superior performance of all connected equipment. *

Frequency

60 Hz +/-5%

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

Operating Temperature Range

32° to +104° F (0° to +40° C)

Operating Humidity Range

10 to 90% relative humidity (non-condensing)

Operating Altitude Range

0 to 6,600 ft (2,000 meters) above sea level (without derating output power)

Storage Temperature Range

-4° to +140° F (-20° to +60° C)

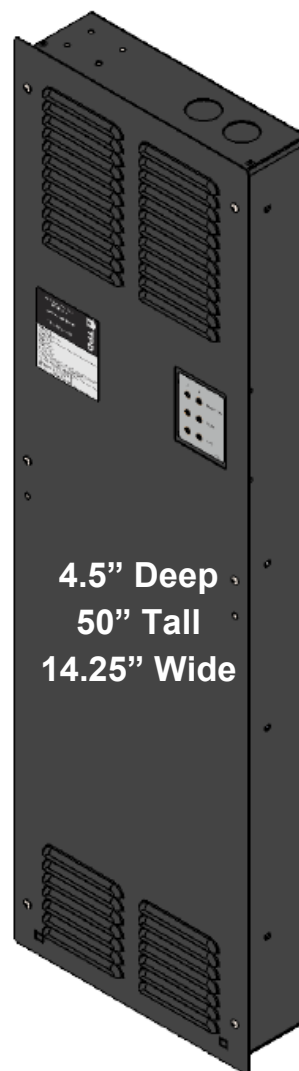
Agency Approvals

Designed to meet UL 60950

Warranty

Two-year limited warranty standard

Note: For continuous product improvement, specifications are subject to change without notice.



Models

TPD-VR1S240-50A-W

50A voltage regulator

Maximum output: 40A / 9.6 kVA

TPD-VR1S240-80A-W

80A voltage regulator

Maximum output: 64A / 15.36 kVA.

TPD-VR1S240-100A-W

100A voltage regulator

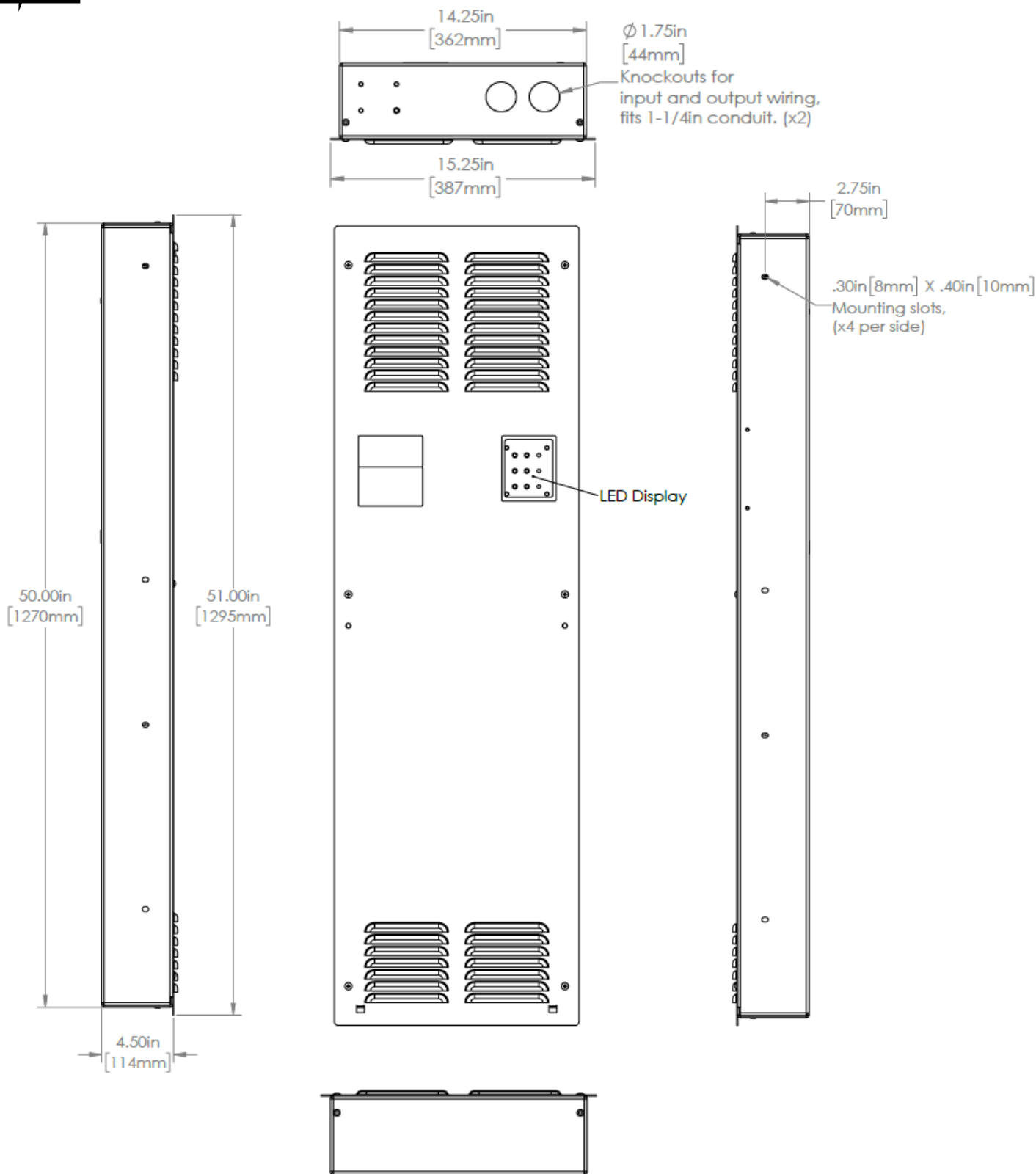
Maximum output: 80A / 19.2 kVA.

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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