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MPD-MT-RMU-4U-BBT-277V-240V-6.25A-L5.15-L5.15-R1

1 Phase Buck & Boost Step-Down Rack Mounted Transformer, 277V Primary - 240V Secondary, 6.25 Amps, 50/60Hz, Flange Mounted NEMA L5-15 Inlet - NEMA L5-15R Receptacle

Product ID: 338345



Image: MPD-MT-RMU-4U-BBT-277V-240V-6.25A-L5.15-L5.15-R1

Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

MPD-MT-RMU-4U-BBT-277V-240V-6.25A-L5.15-L5.15-R1 Buck and Boost Step-Up Rack Mounted Transformer

Transformer Type: Buck/Boost Step-Up Autotransformer
Phase: Single Phase
Frequency: 50/60 Hz
Input Voltage: 277 V AC
Primary Amps: 5.4 A @ 277V
Primary Configuration: Two Winding
kVA: 1.5 kVA
Output Voltage: 240 V AC
Secondary Amps: 6.25 A @ 240V
Voltage Difference: 88%
Winding Material: Copper
Inlet Plug: Flange Mounted NEMA L5-15 Plug
Outlet Receptacle: Surface Munted NEMA L5-15R Receptacle
Cooling: Air / Dry Type
Insulation: 130°C
Temperature Rise: 80°C
Sound Level: 36 dB
Enclosure Rating: NEMA 3R
Encapsulation: Silica Sand & Resin Compounds
Enclosure Material: Steel
Finish: Powder Coated - Black
Mounting: 19" Standard Server Rack (4U Unit)
Dimensions: 19"W x 14"D x 7"H (typical 4U)
Weight: 25 lb

Ratings

NRTL Listed for United States
NRTL Certified for Canada
Black Powder Coated Steel Enclosure
Meets or Exceeds NEMA ST-20 Standards
Buck and Boost Step-Up Transformer
Low Profile Front Mounted Handles

Special Orders - Special Requirements

Contact us for special requirements
Toll Free: 1-800-369-6671
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The MPD-MT-RMU-4U-BBT-277V-240V-6.25A-L5.15-L5.15-R1 from Larson Electronics is a Single Phase Buck and Boost Rack Mounted Transformer that is powerful, reliable, and designed for space-constrained rack installations. Suitable for server racks, telecommunications equipment, network infrastructure, industrial control systems, and other rack-mounted applications, the MPD-MT-RMU-4U-BBT-277V-240V-6.25A-L5.15-L5.15-R1 provides increased reliability, higher efficiency, and protection against voltage mismatch issues. The lower operating costs, lower heat emissions, and lower cost of ownership make this transformer ideal for a wide range of commercial and industrial applications. The MPD-MT-RMU-4U-BBT-277V-240V-6.25A-L5.15-L5.15-R1 is a 4 rack unit (4U) transformer designed for installation in a standard 19-inch equipment rack.

PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO POWER DISTRIBUTION PANELS, TRANSFORMERS, OR SUBSTATIONS*

Transformer Features: The MPD-MT-RMU-4U-BBT-277V-240V-6.25A-L5.15-L5.15-R1 buck and boost transformer is a single phase unit with a 1.5 kVA rating and a primary voltage of 277V AC using a maximum of 5.4 amps on the primary side. This rack mounted transformer provides a secondary voltage of 240V AC and up to 6.25 amps available on the secondary side. Featuring robust construction, this unit's cores are manufactured with non-aging, cold-rolled silicon steel laminations using state-of-the-art manufacturing technology to ensure reliable performance and long service life.

This unit boasts a low cost of ownership and is highly energy efficient. Lower heat emissions reduce cooling requirements while improving overall operating efficiency. The black powder coated steel enclosure makes the unit suitable for mounting in standard 19-inch equipment racks. Low-profile front-mounted handles facilitate installation and removal while allowing rack doors to close properly. The MPD-MT-RMU-4U-BBT-277V-240V-6.25A-L5.15-L5.15-R1 features Class B 130°C insulation and an 80°C temperature rise rating.

Construction: The windings in the MPD-MT-RMU-4U-BBT-277V-240V-6.25A-L5.15-L5.15-R1 are formed from high-quality magnetic copper wire to maximize efficiency and improve electrical performance. Close manufacturing tolerances minimize losses and enhance reliability. Each core is specially coated to resist moisture intrusion and is electrically balanced to minimize stresses during fault conditions. The transformer is encapsulated using silica sand and resin compounds for enhanced durability and environmental protection and housed in a rugged black powder coated steel enclosure. Alternate enclosure configurations may be available upon request.



Click Image to Enlarge

Benefits: The MPD-MT-RMU-4U-BBT-277V-240V-6.25A-L5.15-L5.15-R1 buck/boost step-up transformer offers many benefits to the consumer. Buck/boost transformers pass the majority of the load voltage directly through the transformer, only transforming a small percentage of the load. Due to this technology, a smaller and quieter step-up transformer is manufactured and uses less materials. This provides owners with significant energy savings as well as offering environmental benefits.

Higher efficiency not only extends the life of the transformer, but also turn into cost savings for owners in the form of lower energy bills and decreased cost of ownership. Installation and maintenance costs are reduced due to the smaller form factor, and less overall space requirements are decreased. In addition, these step-up transformers operate quieter than a standard autotransformer of the same capacity.

Mounting: This rack mounted transformer is designed for installation in standard 19-inch server racks and equipment cabinets. The MPD-MT-RMU-4U-BBT-277V-240V-6.25A-L5.15-L5.15-R1 occupies 4U of rack space, making it suitable for applications where rack space is limited. Front-mounted low-profile handles assist with installation and removal while maintaining clearance for rack doors and adjacent equipment.

Wiring/Connections: The MPD-MT-RMU-4U-BBT-277V-240V-6.25A-L5.15-L5.15-R1 features a flange mounted NEMA L5-15 inlet and a surface mounted NEMA L5-15R receptacle for convenient connection of compatible equipment. Protective devices may be provided depending on project requirements and configuration.

Applications: Server rack buck/boost applications.

Limitations: While there are many benefits to a buck/boost transformer, there are some limitations to consider. This transformer will only transformer voltage, it will not convert phases, it will not create even legs between line 1 and line 2 (L1 and L2 WILL be UNEVEN), has no circuit isolation, and does not create a neutral for applications where a neutral is not already present. If any of these limitations apply to you, you will need a standard transformer. Please see below link for our standard line of industrial transformers or our line of phase converters.

Note on Phases: This buck/boost transformer is a single phase step-up transformers. For three phase transformers, click on the following links:
Three Phase Delta Buck/Boost Transformers
Three Phase Wye Buck/Boost Transformers

Larson Electronics is a manufacturer and as such can build stationary and portable transformer systems to your specifications. Although we carry several models of power distribution transformer systems, we can deliver custom ordered units almost as quickly as our prebuilt units. If this model does not meet your needs, please contact us at 1-800-369-6671 or sales@larsonelectronics.com to discuss your specific requirements.

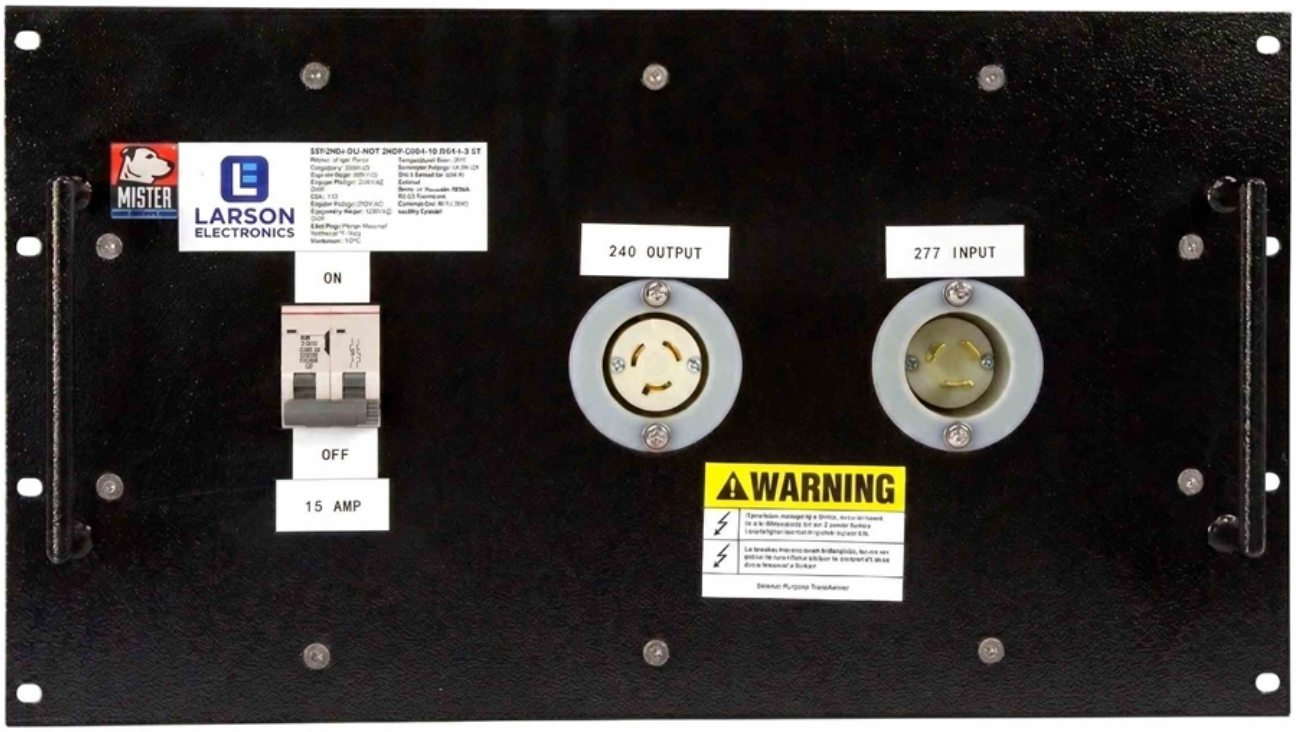
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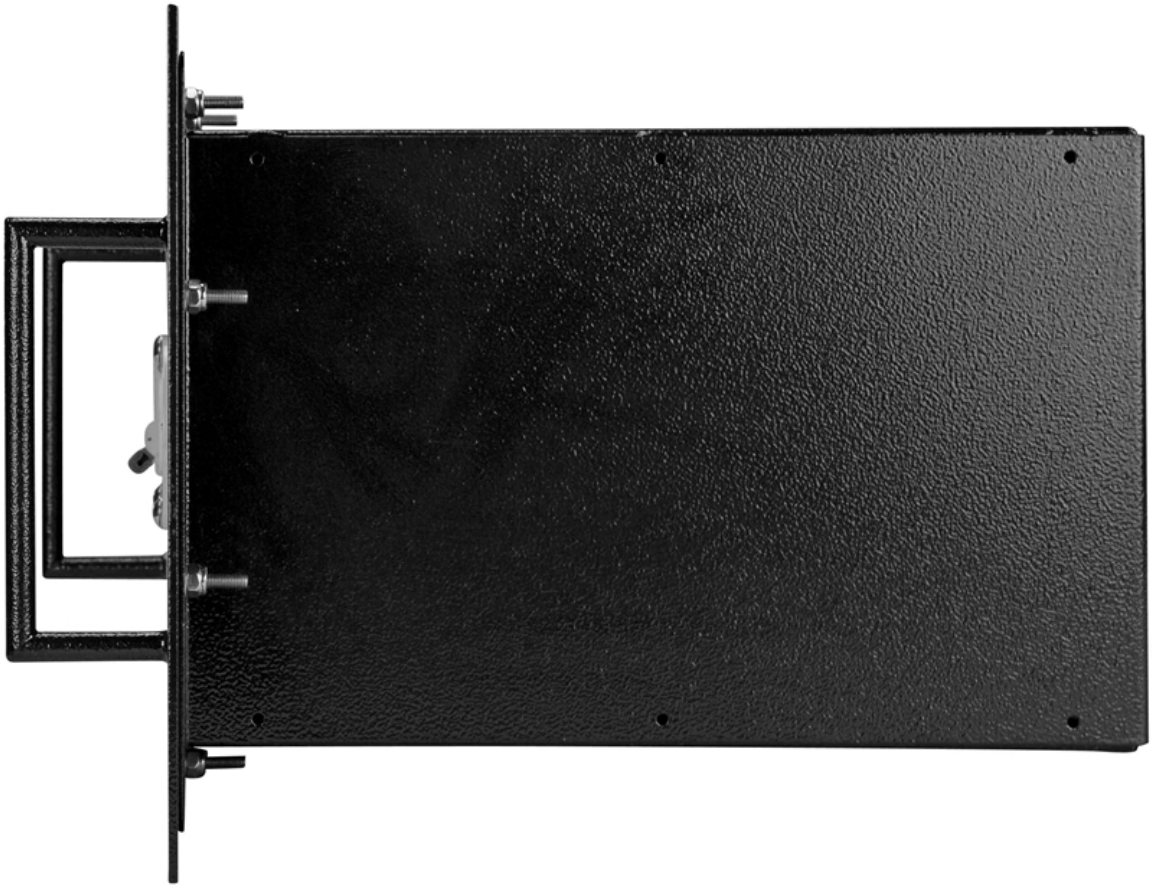
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Frequently Asked Questions (FAQ)

There are no Faqs