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MPD-MT-RMU-20U-ISX-ST5SZ-6.N10-R1

5 kVA Rack Mounted Isolation Transformer - 208V to 120V 1PH, (7) Receptacles - 10' Line-in Cord

Product ID: 287855



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-20U-ISX-ST5SZ-6.N10-M1 -Portable Power Distribution System

Line-in Cord: 10' 8/3 SOOW Line-in Cord
Line-in Cord Cap: 30A NEMA L6-30P Primary Cord Cap [208V]
Primary Voltage (V): 208V AC
Primary Phase (PH): 1-Phase (1PH)
Primary Frequency (HZ): 60 Hz (60-cycles)
Primary Breaker: 30A 2P [250V]
Primary Receptacle: (1) 30A L6-30R [208V]
Primary Protection: Circuit Breaker
Primary Primary Amp Draw: 24.04A

Transformer (KVA): 5KVA 208V to 208-120V 60 Hz N3R

Secondary Voltage (V): 120V AC
Secondary Phase (PH): 1-Phase (1PH)
Secondary Frequency (HZ): 60 Hz (60-cycles)
Secondary Panel: N/A
Secondary Breakers: (6) 20A 1P[125V]
Secondary Outlets: (6) 5-15R/5-20 T-slot Duplex GFCI [125V] for (12) Total Connections
Secondary Protection: Circuit Breakers, GFCI

Form Factor: Rack Mount Transformer

Cooling: Air / Dry Type

Enclosure Rating: NEMA 1
Enclosure Material: Steel - Ventilated
Finish: Powder Coated - Black

Mounting: At Least 20U Tall Server Rack (20U Unit)

Dimensions: 19"-W x 31"-D x 35"-H
Weight: 150 lbs

Ratings

Max Primary OCP: 30A @ 208V
Max Secondary Output: 41.6A @ 120V
NRTL Listed for United States
NRTL Certified for Canada
Black Powder Coated Steel Enclosure
NEMA 1 Rated
Low Profile Front Mounted Handles
Isolation Transformer

Powder Coat Finish Standards:

Complies with ASTM D-523
Complies with ASTM D-3359
Complies with ASTM D-522
Complies with ASTM D-3363
Complies with ASTM D-2794

Special Orders - Special Requirements

Contact us for special requirements

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Larson Electronics manufactures a wide variety of custom power distribution systems. The pictures displayed for this unit are a general representation of form factor and may not accurately represent this exact configuration in every detail due to being custom builds. The specifics for this configuration are listed in the specification table and one-line diagram.

E-mail: sales@larsonelectronics.com

All grounding shall comply with state and local codes and meet the minimum requirements of the National Electronic Code section 250

The MPD-MT-RMU-20U-ISX-ST5SZ-6.N10-M1 from Larson Electronics is a Single Phase Rack Mounted Isolation Transformer that is powerful, reliable and designed with the environment in mind. Suitable for server rack applications, the MPD-MT-RMU-20U-ISX-ST5SZ-6.N10-M1 provides protection against critical equipment failures and abnormal power conditions. The lower operating costs, lower heat emissions and lower cost of ownership make this transformer ideal for a wide range of applications and businesses.

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

Transformer Features: The MPD-MT-RMU-20U-ISX-ST5SZ-6.N10-M1 isolation transformer is a single-phase unit with a 5 kVA rating. This portable power distribution unit features a primary voltage of 208V AC and a secondary voltage of 120V AC. Featuring robust construction, this unit's cores are manufactured with non-aging, cold-rolled silicon steel laminations using state of the art technology. This unit boasts a low cost of ownership and is highly energy efficient. Lower heat emissions mean less cooling is needed as well. The powder coated steel enclosure is black in color, rated NEMA 1, and is suitable for mounting in a server rack mount of at least 20U. Four low profile handles on the front of the enclosure make installation and removal a simple task while still allowing server rack doors to close.

Breakers: This portable power distribution system uses breakers and not fuses. There is no need to replace the breaker should a trip occur. By comparison, fuses need to be replaced, which can delay operations and become costly over a period of time.

Receptacles: The receptacles are located on the back side for routing power wires from equipment into the back of the rack mount transformer. There is one primary L6-30R primary receptacle and six 5-15R/5-20R T-slot receptacles for a total of 12 secondary receptacle connections. These T-slot receptacles accept both 15-amp 5-15P plugs and 20-amp 5-20P plugs from equipment without modifications. This results in increased versatility, convenience and compatibility for existing or new equipment. Each receptacle features GFCI protection. GFCI protection monitors current and will cut the connection upon detecting an incorrect current flow path. This level of protection can prevent fires. Having GFCI offers more protection than fused receptacles and can preserve the lifespan of connected equipment.

Benefits: The MPD-MT-RMU-20U-ISX-ST5SZ-6.N10-M1 isolation transformer offers many benefits to the consumer. Precision cut aluminum transformer winding material help to improve performance. The close tolerances used during manufacturing also eliminates burrs which hinder performance. Each core is specially coated to prevent the ingress of moisture and are electrically balanced to minimize axial forces during short circuit situations.

This transformer 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.

Protection: The primary side of the MPD-MT-RMU-20U-ISX-ST5SZ-6.N10-M1 is protected by a 30-amp C-curve circuit breaker. This thermal magnetic two-pole circuit breaker provides a layer of protection against power surges and start-up amp draw.

Safety: The MPD-MT-RMU-20U-ISX-ST5SZ-6.N10-M1 is an isolation transformer which means that it provides operators with an increased level of protection against electric shock. An isolation transformer can also suppress electrical noise in sensitive devices and transfer power between two circuits which must not be

connected. The MPD-MT-RMU-20U-ISX-ST5SZ-6.N10-M1 achieves these safety features by separating or "isolating" the powered device from the power source and insulation between the primary and secondary power sources.

Isolation Transformer vs Auto Transformer: Isolation transformers are safer than auto transformers because the primary and secondary windings are separated by insulation. This minimizes the risks of electrical shocks and noise, while improving the quality of power across the primary and secondary sides of the isolation transformer. Isolation transformers are effective power distribution solutions for sensitive equipment, including audio, computing, electronics, servers, telecommunications and more.

By comparison, an auto transformer is equipped with a single winding, which holds the primary and secondary sides of the transformer. Due to the shared winding configuration of the auto transformer, isolation does not occur.

Mounting: This rack mounted transformer is designed to be mounted inside server racks. The MPD-MT-RMU-20U-ISX-ST5SZ-6.N10-M1 is a 20U unit which allows it to fit in a server rack mount at least 20U tall. The front located handles assist in inserting and removing the transformer while having a low enough profile to allow server rack doors to close.

Wiring/Connections: The MPD-MT-RMU-20U-ISX-ST5SZ-6.N10-M1 features a 10' 8/3 SOOW line-in cord with a 30-amp L6-30P primary cord cap for single-phase 208V input connection. The primary side also contains one 30-amp 2-pole 250V circuit breaker protecting one 30-amp L6-30R 208V receptacle. The output side is equipped with six 20-amp 1-pole 125V circuit breakers protecting six 5-15R/5-20R T-slot duplex GFCI 125V receptacles for twelve connections.

Applications: Server rack isolation transformer applications.

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.

Frequently Asked Questions (FAQ)