

Summary

Single-phase buck-boost transformer. Steps up 215V to 240V at 60 amps continuous output. 14.4 kVA capacity. NEMA 3R enclosed, cETLus listed, wall mount.

Product Description

This unit corrects a 215V building supply to 240V at the point of use, permanently, without modifying the building's electrical service. Designed for equipment rated 240V that is installed on a 215V system.

Wired as an autotransformer, the unit handles only the difference between input and output and not the full load. This is why a 60-amp buck-boost transformer is significantly smaller and lighter than a 60-amp isolation transformer. The encapsulated core construction eliminates audible hum and provides stable thermal performance under continuous duty.

Features a removable wiring compartment door, removable knockout plate, and six NPT knockouts for flexible conduit entry. Surface mounting bracket for easy wall mount installations.



TX-BB-215V-240V-60A — NEMA 3R Encapsulated, cETLus Listed

Specifications

Phase	Single Phase (1-PH), AC	Transformer Type	Buck/Boost
Capacity	14.4 kVA	Configuration	Encapsulated Autotransformer
Primary Voltage	215V	Primary Termination	Lead Wires & Terminal Lugs
Primary Amperage	67.00A	Secondary Termination	Lead Wires & Terminal Lugs
Secondary Voltage	240V	Termination Access	(6) ¾" NPT Hubs
Secondary Amperage	60A	Winding Material	Aluminum
Maximum Primary OCP	90A	Enclosure Material	Steel
Frequency	50/60 Hz	Finish Color	ANSI 70 Light Grey
Insulation	180°C	Weight	34 lbs
Temperature Rise	115°C	Dimensions	5.43"-W x 4.49"-D x 10.87"-H

Ratings & Certifications

- Listed for United States
- NEMA 3R Indoor/Outdoor Enclosure
- Built to UL-50 Standards
- CE Certified
- Listed for Canada
- Epoxy Resin Encapsulated
- RoHS Compliant



Common Applications

- HVAC & Minisplit
- Loads CNC Machines
- Pump Stations
- Packaging Machines
- Commercial Kitchen Equipment
- Motor Loads
- EV Chargers
- Server Racks & IT Equipment
- Refrigeration & Walk-in
- Coolers Fans & Blowers
- Conveyor Systems
- Overhead Doors

Important: Buck-boost transformers applied as autotransformers do not provide circuit isolation and do not create a neutral. Contact us if your application requires isolation or neutral creation.



Technical drawing of the bottom (underside) plate of a 1000W, 12VDC power supply. The drawing includes three views: a top view, a side view, and a bottom view.

Top View: The plate is 5.43 inches wide and 10.87 inches long. It features three mounting holes (1.12 inches diameter) and a ground hole (0.2 inches diameter). The mounting holes are spaced 1.23 inches apart. The ground hole is located 1.18 inches from the right edge and 1.63 inches from the bottom edge. The plate has a thickness of 0.39 inches.

Side View: The plate is 10.87 inches long and 1.3 inches wide. It shows the mounting holes (1.97 inches from the top edge) and the ground hole (1.57 inches from the bottom edge). The plate has a thickness of 0.39 inches.

Bottom View: The plate is 5.43 inches wide and 4.45 inches long. It features four 3/4 inch NPT knockouts (1.1 inches diameter) arranged in a 2x2 grid. The knockouts are spaced 3.23 inches apart. The plate has a thickness of 0.39 inches.

Connection Guide

1. Connect **X2** and **X3** together
2. Connect **H2** and **H3** together
3. Connect High Voltage **L1** to **X4**
4. Connect Low Voltage **L1** to **H4** and **X1**
5. Connect High & Low Voltage **L2** to **H1**

DIAGRAM D2





TX-BB-215V-240V-60A — NEMA 3R Encapsulated, cETLus Listed



Base Knockouts — (4) ¾" NPT



Side View



Rear View — Surface Mount Bracket



Wiring Compartment — Terminal Leads



Interior — Epoxy Resin Encapsulated Core