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# Trystar Breakout Panel

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## Installation, Operation, and Maintenance Manual

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### **IMPORTANT:**

**Save this instruction sheet for future use of  
the product**

### **Warning**

Electrical potentials hazardous to human life can exist within this equipment when energized. Disconnect all input power before opening case or touching internal parts. Use proper lock-out/tag-out procedures.

The Information contained herein may not cover all variations in equipment or provide for all contingencies. Failure to follow instructions may result in death or serious injury.

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## Introduction

This manual covers Trystar Break-Out Panels. These instructions set out the limiting factors for satisfactory performance of the panels. The information contained herein outlines and describes the proper inspection, installation and maintenance of the panels.

## Inspection upon Receiving

Panels should be carefully inspected upon receipt to ensure that no damage has occurred during shipment. Any damage should be reported at once and a claim should be placed against the transportation company. If any problems are found or parts are missing please contact Trystar at 1-866.TRYSTAR.

## Installation and operating safety

The panels are provided with a door and a deadfront to facilitate installation and should never be operated without these securely mounted in place. A safety program must be established, verified and followed by all personnel involved with the cabinets.

## Grounding

The panel should in turn be grounded securely and effectively as a safety precaution. Grounding must be in accordance with NEC and local electrical codes.

## Wire Selection

Connection cables must be rated for at least 90 degrees C insulation and 60 degree C ampacity. Connection cables must meet NEC and local electrical codes.

## Technical Specifications

This panel is rated at 40 degree C.  
The panel is rated at 95% humidity.  
This panel is also rated at 65KVA.

## Inspection during Installation

The panel should be carefully inspected for any damage due to handling after receipt. The nameplate rating on the unit should be checked against the job specifications to ensure use of the correct panel. The panel should be connected only as described on its nameplate to match the available line voltage.

## Installation Procedures

1. Ensure the area is well ventilated and free from explosive or corrosive gas or vapors.
2. Check the panel nameplate and verify that it is the correct line and load voltage for the application.
3. Shut off primary voltage using approved lock-out/tag-out procedures
4. Connect the cabinet according to the wiring diagram on the nameplate or color coded connections. Torque the mechanical lugs to 500 in/lbs. (see figure 1).
5. Use properly sized cable determined by table 310.15(b)(16).
6. Ground the cabinet in accordance with NEC and local electrical codes.
7. Before energizing the unit, check the utility voltage to ensure it is properly disconnected from the load. Ensure correct phase rotation.
8. Shut off the primary voltage using approved lock-out/tag-out procedures.

9. Connect the load to the receptacles mounted to the side of the panel
10. If for any reason you suspect the unit has been exposed to moisture during transit or storage, it should be dried out before being energized.
11. Energize the unit.

## Operation

To use generator,

1. Ensure Main Power source/ Utility is turned off and locked out.
2. Connect power source via Cam Lock connections located in the back of the panel. Connect in labeled sequence making sure that the connections are fully inserted and turned clockwise to full stop position.
3. Ensure that the door is closed and latched before energizing.

For all relatively normal and clean installations, this panel will operate satisfactorily under normal conditions and loads.

Please note that generator must have neutral and ground bonded at generator for safe operation unless otherwise labeled on enclosure or required by local code.

## Maintenance

The Tuff Panel shall only be maintained, serviced and inspected by qualified personnel.

All power to the Tuff Panel must be disconnected and tested to confirm that the box is safe to work on.

Check Integrity of the enclosure by visually inspecting it for any defects.

Check all stickers

1. Make sure that all stickers are on the enclosure.
2. Make sure all stickers are clean and legible.
3. If stickers are losing adhesion, replace.

Check door latches and cams

1. Make sure that the door latches turn freely.
2. Make sure that when latched the door is firmly closed so that the gasket creates a good seal.

Check door hinges

1. Make sure door hinges swing freely and do not bind.
2. Make sure the fasteners for door hinges are tight

Check Phase Lights

1. Ensure that the phase lights only turn on when corresponding camlocks are plugged in

## Spare parts.

If any of the parts need to be replaced contact Trystar at 1-866-TRYSTAR.