

# Load Bank Station Specification Document

## PART 1 – GENERAL

### 1.1 SUMMARY

#### A. Section Includes:

1. Load Bank Station Specifications

#### B. Related Sections:

1. Division 00 – Bidding Requirements
2. Division 01 – General Requirements
3. Section 26 00 00 – Electrical: Basic Requirements

### 1.2 QUALITY ASSURANCE

#### A. Referenced Standards:

1. Underwriters Laboratories, Inc.
  - a. UL 891 Listed – Transfer Switch Equipment

### 1.3 QUALIFICATIONS

#### A. General

1. Load Bank Station manufacturer shall provide a complete factory assembled Load Bank Station.

### 1.4 SUBMITTALS

#### A. Shop Drawings

1. Product technical data:
  - a. Product dimensions with front and side elevation views
  - b. Enclosure type
  - c. Connection details and cable entry locations
  - d. Assembly ratings including amperage, voltage, and number of poles

### 1.5 WARRANTY

#### A. Factory Warranty

1. Load Bank Stations shall be covered by a manufacturer's warranty for a period of one (1) year from date of shipment from the manufacturer.

## PART 2 – PRODUCTS

### 2.1 ACCEPTABLE MANUFACTURERS

- A. Power Assemblies, LLC.
- B. No Substitutions

### 2.2 LOAD BANK STATIONS

#### A. GENERAL

1. A Load Bank Station is defined as CAM style female connectors and grounding terminals enclosed within an enclosure for the distinct purpose of connecting a load bank.
2. In the event the Contractor is furnishing the Load Bank Station, the Contractor shall be responsible for the equipment until it has been installed, inspected, tested and accepted in accordance with the requirements of the specifications.
3. Load Bank Stations shall be PowerTEK™ Compact Series as manufactured by Power Assemblies LLC.

## B. CONSTRUCTION

1. All equipment shall be new.
2. Load Bank Station enclosure shall be NEMA Type 4/12
  - a. Unit shall be constructed of 0.075" carbon steel, seamless, continuously welded, and ground smooth. Enclosure will have a flange trough collar around all sides of door opening(s).
  - b. Enclosure will have mounting holes in back of enclosure for wall mounting and mounting hardware with sealing washers and hole plugs shall be included.
  - c. Unit will have stainless steel concealed hinges with removable and interchangeable door(s) capability, padlocking handles, 3-point latching mechanisms on all forward facing doors, removable print pocket, oil & water resistant gasketing and will include ground stud on door(s) and body for grounding.
  - d. Unit shall also include a hinged access panel for load bank CAM type connector feeder cables.
  - e. CAM type female connectors (outlets) shall be UL/CSA Listed single-pole and rated at 400 amps at 600VAC. CAM type female connectors shall be color coded to visualize appropriate voltages. CAM type female connectors shall be provided for each phase in the appropriate configuration to support required amperage and provided for neutral if required.
  - f. The ground CAM type female connectors shall be bonded to the enclosure and a sufficient ground provided for the connection of the facility grounding conductor. None of the CAM type outlets shall be accessible unless the hinged access panel door is open.
3. ANSI-61 gray powder coating inside and out.
4. Sub-panels may be powder coated white or bare aluminum.

## C. ENCLOSURE

1. Mount: Wall Mount
2. Material: Carbon Steel
3. Finish: ANSI 61 Gray
4. Additional Requirements
  - a. NEMA Type 4/12
  - b. UL Listed/CSA Type 4 and 12
  - c. IEC 60529 IP 66

## PART 3 – EXECUTION

### 3.1 INSTALLATION

#### A. Procedures for Installation

1. Prior to installation of Load Bank Stations, Contractor shall examine the areas and conditions under which the Load Bank Station is to be installed and notify the Engineer in writing if unsatisfactory conditions exist.
2. Load Bank Station shall be installed as shown on the drawings. In addition, the installation shall:
  - a. Meet the requirements of local codes, the National Electrical Code and National Electrical Contractors Association's "Standard of Installation."
  - b. Only use copper wire conductors for all field wiring.
  - c. All terminations must be torqued according to the label provided.