

Transformer Cart Specification Document

PART 1 – GENERAL

1.1 SUMMARY

A. Section Includes:

1. Transformer Cart 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. UL98
- b. UL1682
- c. UL1686
- d. UL1691
- e. UL498
- f. UL506
- g. UL1561
- h. UL67
- i. UL50

1.3 QUALIFICATIONS

- A. Transformer cart manufacturer shall provide a complete factory assembled and tested transformer cart.

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
 - d. Assembly ratings including amperage, voltage and poles

1.5 WARRANTY

A. Factory Warranty

1. Transformer Carts 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 TRANSFORMER CARTS

A. DISCONNECT SWITCH

1. GENERAL

- a. Disconnect switches are defined as a single throw, enclosed, and fusible switch.

2. CONSTRUCTION

- a. Equipment shall be new.
- b. Disconnect switch enclosure shall be NEMA Type 3R
 1. Unit shall be constructed of galvanized steel with ANSI-49 grey paint.
 2. Enclosure will have flange with mounting holes in back of enclosure for wall mounting and mounting.
 3. Unit will have side-opening, left hinged covers.
 4. Unit shall also include a red and black handle to indicate the switch position.
 5. Inlets may either be CAM type male connectors, pin & sleeve, or locking flanged inlets.
 - a. CAM type male connectors (inlets) shall be UL/CSA Listed. CAM type male connectors shall be provided for each phase in the appropriate configuration to support required amperage and provided for neutral if required.
 - b. Pin & Sleeve connectors shall be of heavy-duty construction and UL listed.
 - c. Locking flanged inlets are to be UL listed and of rugged construction.

3. ENCLOSURE

- a. Mount: Wall Mount
- b. Material: Galvanized Steel
- c. Finish: ANSI 49 Gray
- d. Additional Requirements
 1. NEMA Type 3R
 2. UL98 Listed

B. TRANSFORMER

1. GENERAL

- a. Transforms are defined as 600V class, dry type general purpose distribution transformers.

2. CONSTRUCTION

- a. Equipment shall be new.
- b. Transformer enclosure shall be NEMA Type 3R
 1. Unit shall utilize aluminum or copper windings
 2. Transformer shall be UL listed.
 3. Unit shall contain electrostatic shield
 4. Transformer will have removable panels front and rear
- c. ANSI-61 gray powder coating

3. ENCLOSURE

- a. Mount: Floor Mount
- b. Material: Steel
- c. Finish: ANSI 61 Gray
- d. Additional Requirements
 - 1. NEMA Type 3R
 - 2. UL506
 - 3. UL1561

C. PANELBOARD

1. GENERAL

- a. Panelboards are defined as a power distribution panel with feeder breakers.

2. CONSTRUCTION

- a. Equipment shall be new.
- b. Generator Docking Station enclosure shall be NEMA Type 3R
 - 1. Unit shall be constructed of carbon steel.
 - 2. Enclosure will have mounting holes in back of enclosure for wall mounting.
 - 3. Unit must be protected by main breaker.
 - 4. Unit must be UL Listed
 - 5. Outlets wired to unit must be UL listed
 - a. UL498
- 3. ANSI-61 gray powder coating.

3. ENCLOSURE

- a. Mount: Wall Mount
- b. Material: Carbon Steel
- c. Finish: ANSI 61 Gray
- d. Additional Requirements
 - a. NEMA Type 3R
 - b. UL67
 - c. UL50

D. FRAME

1. GENERAL

- a. The frame is defined as the protective welded steel enclosure that all previous equipment is mounted.

2. CONSTRUCTION

- a. Equipment shall be new.
- b. The frame shall be constructed of 1.5'' x 1.5'' x .125'' steel.
- c. The frame shall be outfitted with (2) ridged and (2) swivel casters.
- d. The frame shall be coated with ArmorTek protective coating.

PART 3 – EXECUTION

3.1 INSTALLATION

A. Procedures for Installation

1. Transformer carts are intended for temporary power use.