Part 1 - General

**Section 1.1 - Scope**

1. This section specifies the furnishing, installation, and connection requirements for Generator Inlet Panel “Tap Box” manufactured by Powertron Corp.

 **Section 1.2 - Purpose**

1. Generator Quick Connection Tap Box shall be designed and tested to allow a safe connection between mobile generator and Tap Box while the facility is at loss of power. When permanently installed correctly, the tap can help the process of restoring power quickly once the mobile generator arrives.
2. The Tap Box shall be permanently installed by a qualified licensed electrician to the exterior of the building and be hardwired to a transfer switch or switchboard.

**Section 1.3 – Quality & Craftsmanship**

1. All Generator Tap Boxes shall be built in accordance with the National Electric Code.
2. Underwriters Laboratory, Inc. {UL} shall conform to cULus 1008 Standards in US in Canada and be listed under one of the following UL categories;
* Enclosed Power Inlet – Standard Series
* Transfer Switch Accessory – Breaker Series
* Nonautomatic Transfer Switch – MTS Series
1. A Written quality control process to inspect finished goods shall be documented for all manufactured products
2. Tap Box manufacturer shall be manufacturing “Tap Boxes” for at least ten (10) years.

**Section 1.4 – Warranty**

1. Powertron Corp warrants products manufactured and delivered will be free from defects in material and workmanship for a period of fifteen (15) months after date of shipment.

**Section 1.5 – Installation and Use**

1. Installation of the Powertron Tap Box shall only be done by a qualified licensed electrician.
2. Understand Powertron’s Owner Manual prior to installing and using Tap Box.

Part 2 - Product Requirements

**Section 2.1 – General Construction**

1. All components shall be new and free of defects.
2. Tap Box Amperage: \_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Tap Box Voltage: \_\_\_\_\_\_\_\_\_\_\_\_
4. Tap Box Mounting: Wall Mount or Pad Mount
5. Powertron Series Tap Box: Legacy Series, or Standard Series, Breaker Series, or MTS Series
6. Enclosure Material: Mild Steel or Stainless Steel

**Section 2.2 – Enclosure**

1. Enclosure shall be manufactured by Hoffman Enclosures
2. Final finish shall be either NEMA 3R mild steel or NEMA 4X stainless steel
	* Mild steel finish shall be powder coat RAL 1015 and applied to the interior and exterior.
	* Stainless steel finish shall be clear coat brushed finish.
3. Front door shall be hinged with appropriate weather rated gaskets.
4. Trapper Cable Door
	* Trapper Cable Door shall be constructed within the bottom section of the main door. While generator cables are connected to tap box, main door shall be able to secure generator cables when locked.
	* UL tested {rain test} to NEMA 3R standards when trapped cable door is being used.
	* UL Verified and tested using a UL listed prosthetic finger
	* UL Verification Claim: “*Trapped cable door prevents cable disconnection by unauthorized personnel*”, [claim #: A061453], visit to learn more, [www.verify.ul.com](http://www.verify.ul.com).
	* Trapped Cable Door shall be grounded to main door

**Section 2.3 – Bus Bar**

1. Busing shall be used for “permanent” cable connections to the facility.
2. Shall be copper material and tin plated

**Section 2.4 – Single Pole Receptacles**

1. Single pole receptacles “Cam-Lock Connectors” shall be NEMA 3R rated
	* + - 1. Approved Manufacture, Hubbell Wiring Devices— No Substitute
				2. Color codes for voltage identification as follows:
	* 120/208V, 120/240V, and 347/600V: Green {Ground}, White {Neutral}, Phase A/L1 {Black}, Phase B/L2 {Red}, and Phase C/L3 {Blue}
	* 277/480V: Green {Ground}, White {Neutral}, Phase A/L1 {Brown}, Phase B/L2 {Orange}, and Phase C/L3 {Yellow}
2. Ground receptacle shall be bonded to enclosure

**Section 2.5 – Optional Features**

* 1. Phase Rotation Monitor Kit shall be in separate packaging and “field Assembled” by a qualified licensed electrician. Assembly shall follow the installation instructions that have been verified by Underwriters Laboratory, Inc. {UL}
* The actual Phase Rotation Monitor kit has been tested and UL Listed as a completed assembled product and UL Verified - Claim: “*Phase rotation monitor integrated in startup procedure*”, [claim #: A152478], visit to learn more, [www.verify.ul.com](http://www.verify.ul.com).
	1. KIRK® Key Interlock Kit
* Field assembled kit available in single barrel or double barrel KIRK Key. KIRK Key sold separately.
	1. Two (2) wire remote generator start wire terminals
* Field assembled and/or installed by factory at time of order.
	1. One (1) NEMA 5-20R duplex GFCI 20 Amp outlet for mobile generator block heater and battery charger
* Field assembled and/or installed by factory at time of order.
	1. 30 Amp Twist Lock Kit
* Field assembled and/or installed by factory at time of order.
	1. 50 Amp Twist Lock Kit
* Field assembled and/or installed by factory at time of order.

**Section 2.6 – Approved Tap Box Manufacturer(s)**

1. Powertron Corp.
2. No Substitute

**END OF SECTION**