

# **DIVISION 26 – ELECTRICAL**

## **26 33 53 STATIC UNINTERRUPTABLE POWER SUPPLY**

### **PART 1 - GENERAL**

#### 1.01 SUMMARY

- A. This section describes a three-phase continuous duty, on-line, double conversion, solid-state uninterruptible power system, hereafter referred to as the Static Uninterruptible Power Supply (UPS). The UPS shall operate in conjunction with the existing building electrical system to provide power conditioning, back up and distribution for critical electrical loads. The UPS shall consist of the UPS module, battery backup, maintenance bypass/distribution cabinet, and other features as described in this specification.

#### 1.02 SYSTEM DESCRIPTION

- A. UPS System Components: The UPS system shall consist of the following main components:
  - 1. UPS module containing a Rectifier, Inverter, Battery Charger, Static Bypass, and associated Control and Monitor Panel.
  - 2. Battery string(s) in Line-and-Match Battery Cabinets.
  - 3. Integrated maintenance bypass and distribution in a Line-and-Match cabinet.

### **PART 2 - PRODUCTS**

#### 2.01 MANUFACTURERS

- A. Pre-Approved Manufacturers:
  - 1. Eaton Powerware
  - 2. Square D
  - 3. General Electric

#### 2.02 UPS MODULE STANDARD FEATURES

- A. The UPS module shall consist of the following standard components:
  - 1. High-frequency PWM design, using Insulated Gate Bi-polar Transistors (IGBTs)
  - 2. Static Bypass

#### 2.03 UPS MODULE OPTIONS AND ACCESSORIES

- A. Integrated Maintenance Bypass and Distribution

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- B. SNMP Network Adapter and UPS Power Monitoring Software, when requested by the end user (through the WSU Project Manager).
- C. Battery cabinet, where batteries are not to be installed remote.
- D. Module tie cabinet, where requested by the end user (through the WSU Project Manager) for paralleling UPS modules.

#### **2.04 COMMUNICATIONS, MONITORING, AND NOTIFICATION**

- A. Provide communications, monitoring, and notification as required by the end user.

**END OF SECTION**