



Division 263353

Static Lighting Inverters

DESIGN GUIDE

1 General

1.1 Introduction

- A. This section applies to the following:
 - 1. Static Lighting Inverters
- B. Inverters shall be located such that access can be achieved without the use of a ladder. Avoid locating above ceilings. Locate inverters in electrical closets where possible.

2 Materials

2.1 General

- A. Manufacturers: Dual Lite, Myers, Iota or approved equal.

2.2 Static Lighting Inverter

- A. System Configuration: Non-redundant off-line type.
- B. Components:
 - 1. Battery.
 - 2. Rectifier/charger to maintain battery charge and to provide input to inverter when utility power is available.



3. External make-before-breaker maintenance bypass switch.
 4. Monitors, sensors, and control circuits.
- C. Battery Capacity: Capable of operating at full load for 90 minutes unless otherwise indicated on the drawings.
 - D. Inverter Type: Pulse Width Modulation.
 - E. Rectifier/Charger Capacity: Three-step float.
 - F. Cooling: Natural convection.
 - G. Automatic Testing: Self-test/self-diagnostic microprocessor controlled circuitry.
 - H. Input: AC circuit breaker.
 - I. The system shall include the following options:
 1. Output Breakers: Provide 20 amp, single pole output circuit breakers with alarms.
 2. Maintenance Bypass Switch: Maintenance switch shall be break before make.
 3. Auxiliary Terminal Strip: Provide an auxiliary terminal strip to allow remote monitoring of inverter status and alarm indications.

3 Execution

3.1 Installation

- A. Provide housekeeping pads under the enclosure.
- B. Demonstrate system operation by simulating an outage.



4 Appendix

4.1 Reserved for future.

