

26 05 13 MEDIUM VOLTAGE CABLE

PART 1: GENERAL

A.



system. The alternator shall be oversized and rated ~~at least~~ 125% of the specified kW/kVA at 80 degree rise for non-linear load considerations.

- C. The engine generator set shall be capable of picking up a minimum of 100% nameplate and connected kW and power factor, less applicable ~~leading~~ factors, in one ~~sp~~ with the unit at operating temperature.
- D. The engine generator set shall have a motor starting or surge KVA capability of three times the rated KVA based upon a recovered sustained RMS voltage drop of no more than 10% of no load voltage with the spec



1. CCT of 4000K and CRI 80

## LED Lighting

### A. Screw-in retrofit lamps

1. Shall meet DOE's Energy Star or Design Light Consortium performance criteria for qualified screw-in or pin-based LED lamps.
2. Shall have Lamp CCTs conforming to ANSI C78.377A color binning and utilize a 4 step MacAdam Ellipse Algorithm binning process (Philips Optibin or equal) within each retrofit lamp for greater CCT consistency.
3. The CCT shall be 5000K unless otherwise approved by the University. The CRI shall be 80.
4. Shall be tested in accordance with 80 lumen depreciation test. Provide to the University, test results of each unique lamp. The L70 rated life result shall be a minimum of 25,000 hours for MR11, 16 and candelabra lamps; 40,000 hours for PAR 20, 30, 38 and BR30 lamps.

### B. Power Supplies

1. Dimmable power supplies shall allow the light output to be maintained at the lowest control setting (prior to off) without dropping out.

### C. Exit Signs

1. Fixtures shall be LEC or LED, hard wired, perimeter lit and red-lear background type.
2. If a back-up circuit is not available, then exit sign must be a battery back-up type with self diagnostics that shall perform both 30 day and annual 90 minute tests with LED indication.

## 2.02 EXTERIOR LUMINAIRES

A. The performance criteria is the same as interior luminaires plus the additional or "in lieu of" criteria below:

1. Lamp CRI shall be 70 for metal halide and LED light sources.
2. Shall be durable, corrosion resistant fixtures that are readily maintainable and have minimal luminaire O&M costs



### 3.01 INTERIOR LIGHTING

#### A. Applic