POWER SPECIFICATIONS

JEDI 80kw SYSTEMS CABINET  
REV. DATE: 21.JUN.14

VOLTAGE

PRIMAR Y SOURCE IS REQUIRED FOR ALL INSTALLATIONS.
RANGE OF LINE VOLTAGES:
NOMINAL LINE VOLTAGE OF 380 TO 480, 3 PHASE, WITHOUT NEUTRAL,
50 OR 60 HZ.

REQUIRED POWER SUPPLY: WYE DISTRIBUTION

MAXIMUM DAILY VOLTAGE VARIATION MUST FALL WITHIN ONE OF
THE RANGES IN TABLE A.

<table>
<thead>
<tr>
<th>NOMINAL VOLTAGE</th>
<th>NORMAL RANGE ±10 PERCENT</th>
<th>CURRENT (AMPS)</th>
<th>MINIMUM OVERCURRENT PROTECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>MAX, MOMENTARY</td>
<td>CONTINUOUS</td>
</tr>
<tr>
<td>380</td>
<td>342–418</td>
<td>190</td>
<td>7</td>
</tr>
<tr>
<td>400</td>
<td>360–440</td>
<td>181</td>
<td>6.6</td>
</tr>
<tr>
<td>415</td>
<td>373–456</td>
<td>172</td>
<td>6.3</td>
</tr>
<tr>
<td>440</td>
<td>396–484</td>
<td>164</td>
<td>6</td>
</tr>
<tr>
<td>460</td>
<td>414–506</td>
<td>157</td>
<td>5.8</td>
</tr>
<tr>
<td>480</td>
<td>432–528</td>
<td>151</td>
<td>5.5</td>
</tr>
</tbody>
</table>

ALL CALCULATIONS BASED UPON NOMINAL VOLTAGE

NOTE

LOW LINE CONDITIONS MAY INHIBIT SOME HIGH kWp TECHNIQUES.
THE GENERATOR AUTOMATICALLY ESTABLISHES THESE INHIBITS
BASED ON ACTUAL LINE CONDITIONS AND SYSTEM REGULATION.

PHASE-BALANCE.

PHASE-TO-PHASE VOLTAGES MUST BE WITHIN ±2 PERCENT
OF THE LOWEST PHASE-TO-PHASE VOLTAGE. MAXIMUM ALLOWABLE
TRANSIENT VOLTAGE EXCURSIONS ARE 2.5 PERCENT OF RATED
LINE VOLTAGE AT A MAXIMUM DURATION OF 5 CYCLES AND
FREQUENCY OF 10 TIMES PER HOUR.

POWER DEMAND

CONTINUOUS POWER DEMAND = 4.6 kVA. (MAX DEMAND = 125 kVA)

<table>
<thead>
<tr>
<th>DEMAND</th>
<th>PRECISION 80 KW</th>
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<tbody>
<tr>
<td>kVA *</td>
<td>125</td>
</tr>
<tr>
<td>POWER FACTOR</td>
<td>0.73</td>
</tr>
<tr>
<td>mA</td>
<td>630</td>
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<tr>
<td>kVp</td>
<td>80</td>
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</tbody>
</table>

* DEMAND INCLUDES POWER FOR ENTIRE SYSTEM.
LINE VOLTAGE REGULATION AT MAXIMUM POWER DEMAND
MUST BE LESS THAN OR EQUAL TO 6 PERCENT.

DISTRIBUTION

FOR A SINGLE UNIT INSTALLATION, THE MINIMUM TRANSFORMER SIZE
IS 150 kVA. SYNTHESIZED POWER FEED IS NOT ACCEPTABLE

TRANSFER
## FEEDER TABLE

**JEDI 80kw SYSTEMS CABINET**  
**REV. DATE: 04/24/07**

- Calculations based upon nominal voltage, wire size in AWG.
- Recommended feeder sizes from distribution transformer to the power cabinet.
- Neutral must be terminated inside the main disconnect panel and not at any GE cabinet.
- The grounding conductor will be of same size as the feeder with a 1/0 minimum. This ground will run from the equipment back to the facility power source/main grounding point and always travel in the same conduit with the feeders and neutral.
- * Minimum wire size for circuit breaker, based on recommended overcurrent protection.
- For a full system UPS, refer to electrical details for UPS feeder wires.

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<tbody>
<tr>
<td></td>
<td>FEEDER</td>
<td>GROUND</td>
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<tr>
<td>50</td>
<td>* 2 (1/0)</td>
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