

POWER SPECIFICATIONS

JEDI 65kw SYSTEMS CABINET

REV. DATE: 12/13/10

VOLTAGE

PRIMARY 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 A
 ALLOWABLE
 INPUT
 VOLTAGES/
 CURRENT
 DEMAND**

NOMINAL VOLTAGE	NORMAL RANGE ±10 PERCENT	CURRENT (AMPS)		MINIMUM OVERCURRENT PROTECTION
		MAX. MOMENTARY	CONTINUOUS	
380	342-418	148	7	74-A
400	360-440	140	6.6	70-A
415	373-456	133	6.3	67-A
440	396-484	127	6	64-A
460	414-506	122	5.8	61-A
480	432-528	117	5.5	59-A

ALL CALCULATIONS BASED UPON NOMINAL VOLTAGE

NOTE

LOW LINE CONDITIONS MAY INHIBIT SOME HIGH kVp 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 = 97 KVA)

**TABLE B
 MAXIMUM
 MOMENTARY
 POWER
 DEMAND.**

DEMAND	PRECISION 65 KW
kVa * POWER FACTOR AT	97 0.73
mA	630
kVp	80

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

DISTRIBU-TION TRANS-FORMER

FOR A SINGLE UNIT INSTALLATION, THE MINIMUM TRANSFORMER SIZE IS 112.5 KVA.



FEEDER TABLE

JEDI 65kw 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.

RUN LENGTH IN FEET	POWER SUPPLY VOLTAGE											
	342-418 380		360-440 400		373-456 420		396-484 440		414-506 460		432-528 480	
SIZE OF FEEDERS AND GROUND WIRES (AWG)												
	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND
50	* 4	(1/0)	* 4	(1/0)	* 4	(1/0)	* 4	(1/0)	* 4	(1/0)	* 4	(1/0)
100	3	(1/0)	* 4	(1/0)	* 4	(1/0)	* 4	(1/0)	* 4	(1/0)	* 4	(1/0)
150	2	(1/0)	2	(1/0)	2	(1/0)	3	(1/0)	3	(1/0)	* 4	(1/0)
200	1/0	(1/0)	1	(1/0)	1	(1/0)	2	(1/0)	2	(1/0)	2	(1/0)
250	2/0	(2/0)	2/0	(2/0)	1/0	(1/0)	1	(1/0)	1	(1/0)	1	(1/0)
300	3/0	(3/0)	2/0	(2/0)	2/0	(2/0)	1/0	(1/0)	1/0	(1/0)	1/0	(1/0)
350	4/0	(4/0)	3/0	(3/0)	3/0	(3/0)	2/0	(2/0)	2/0	(2/0)	2/0	(2/0)
400	250M	(250M)	4/0	(4/0)	4/0	(4/0)	3/0	(3/0)	3/0	(3/0)	3/0	(3/0)
450	300M	(300M)	250M	(250M)	4/0	(4/0)	4/0	(4/0)	4/0	(4/0)	4/0	(4/0)