



FEEDER TABLE

FEEDER TABLE

REV. DATE: 12/22/05

- CALCULATIONS BASED UPON NOMINAL VOLTAGE, WIRE SIZE IN AWG.
- RECOMMENDED FEEDER SIZES FROM DISTRIBUTION TRANSFORMER TO THE POWER CABINET
- RECOMMENDED FEEDER SIZES FROM DIST. TRANS. TO ROOM DISCONNECT. CALCULATIONS ARE AT NOMINAL VOLTAGE BASED UPON 1/0 WIRE SIZE FROM ROOM DISCONNECT TO POWER CABINET WITH A MAXIMUM RUN OF 25 FT.
- 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 WIRES 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													
	324-396 360		342-418 380		360-440 400		378-462 420		396-484 440		414-506 460		432-528 480	
	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND
50	* 2	(1/0)	* 2	(1/0)	* 2	(1/0)	* 2	(1/0)	* 2	(1/0)	* 2	(1/0)	* 2	(1/0)
100	1	(1/0)	* 2	(1/0)	* 2	(1/0)	* 2	(1/0)	* 2	(1/0)	* 2	(1/0)	* 2	(1/0)
150	2/0	(2/0)	1/0	(1/0)	1/0	(1/0)	1	(1/0)	1	(1/0)	* 2	(1/0)	* 2	(1/0)
200	3/0	(3/0)	3/0	(3/0)	2/0	(2/0)	1/0	(1/0)	1/0	(1/0)	1/0	(1/0)	1	(1/0)
250	4/0	(4/0)	4/0	(4/0)	3/0	(3/0)	3/0	(3/0)	2/0	(2/0)	2/0	(2/0)	1/0	(1/0)
300	300M	(300M)	250M	(250M)	4/0	(4/0)	4/0	(4/0)	3/0	(3/0)	3/0	(3/0)	2/0	(2/0)
350	350M	(350M)	300M	(300M)	300M	(300M)	250M	(250M)	4/0	(4/0)	4/0	(4/0)	3/0	(3/0)
400	500M	(500M)	400M	(400M)	350M	(350M)	300M	(300M)	250M	(250M)	4/0	(4/0)	4/0	(4/0)

POWER SPECIFICATIONS

ADVANTX LFX/MP/VMP 80 GENERATOR SYSTEM

REV. DATE: 02/22/06

VOLTAGE PRIMARY SOURCE IS REQUIRED FOR ALL INSTALLATIONS.
 RANGE OF LINE VOLTAGES :
 NOMINAL LINE VOLTAGE OF 360 TO 480, 3 PHASE, 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 STANDARD OVERCURRENT PROTECTION
		MAX. MOMENTARY	CONTINUOUS	
360	324-396	275	32	110-A
380	342-418	260	30	110-A
400	360-440	247	29	110-A
420	378-462	235	28	110-A
440	396-484	225	26	110-A
460	414-506	215	25	110-A
480	432-528	206	24	110-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 = 20KVA. (MAX DEMAND = 137 KVA)

TABLE B
 MAXIMUM
 MOMENTARY
 POWER
 DEMAND.

DEMAND	ADVANTX 80
kVa * POWER FACTOR AT	137 0.9
mA	1000
kVp	80

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

DISTRI-BUTION TRANS-FORMER FOR A SINGLE UNIT INSTALLATION, THE MINIMUM TRANSFORMER SIZE IS 150 KVA.