



FEEDER TABLE

FEEDER TABLE ADVANTX HF 80/REVOLUTION 80

REV. DATE: 12/23/05

- 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 SYSTEM 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 SIZE FOR CIRCUIT BREAKER, NEC ARTICLE 517-73.
- 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		378-462 420		396-484 440		414-506 460		432-528 480	
	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)
100	2	(1/0)	* 2	(1/0)	* 2	(1/0)	* 2	(1/0)	* 2	(1/0)	* 2	(1/0)
150	1	(1/0)	1	(1/0)	1	(1/0)	2	(1/0)	2	(1/0)	* 2	(1/0)
200	2/0	(2/0)	1/0	(1/0)	1/0	(1/0)	1	(1/0)	1	(1/0)	2	(1/0)
250	3/0	(3/0)	3/0	(3/0)	2/0	(2/0)	2/0	(2/0)	1/0	(1/0)	1/0	(1/0)
300	4/0	(4/0)	4/0	(4/0)	3/0	(3/0)	3/0	(3/0)	3/0	(3/0)	2/0	(2/0)
350	250M	(250M)	250M	(250M)	4/0	(4/0)	4/0	(4/0)	3/0	(3/0)	3/0	(3/0)
400	300M	(300M)	300M	(300M)	250M	(250M)	250M	(250M)	4/0	(4/0)	3/0	(3/0)

POWER SPECIFICATIONS

ADVANTX HF 80/REVOLUTION 80 REV. DATE: 02/22/06

VOLTAGE PRIMARY SOURCE IS REQUIRED FOR ALL INSTALLATIONS.
 RANGE OF LINE VOLTAGES :
 NOMINAL LINE VOLTAGE OF 380 TO 480, 3 PHASE, 50 OR 60 Hz

REQUIRED POWER SUPPLY: WYE-CONNECTED.

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	
380	342-418	179	15.8	90-A
400	360-440	171	15	90-A
420	378-462	162	14.5	90-A
440	396-484	155	13.6	80-A
460	414-506	148	13	80-A
480	432-528	142	12.5	80-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 = 10.4 KVA. (MAX DEMAND = 118 KVA)

TABLE B
 MAXIMUM
 MOMENTARY
 POWER
 DEMAND.

DEMAND	ADVANTX HF 80
kVa * POWER FACTOR AT	118 0.73
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.