



## FEEDER TABLE

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REV. DATE: 03/25/08

- CALCULATIONS BASED UPON NOMINAL VOLTAGE, WIRE SIZE IN AWG.
- RECOMMENDED FEEDER SIZES FROM DIST. TRANS. TO ROOM DISCONNECT. CALCULATIONS ARE AT NOMINAL VOLTAGE BASED UPON MAXIMUM 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. 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.
- IF THE FEEDER IS BIGGER THAN 3/0, THE HOSPITAL MUST PROVIDE AND INSTALL A REDUCTION BOX.

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
SIZE OF FEEDERS AND GROUND WIRES (AWG)							
50	*1/0	*1/0	*1/0	*1/0	*1/0	*1/0	*1/0
100	*1/0	*1/0	*1/0	*1/0	*1/0	*1/0	*1/0
150	3/0	2/0	2/0	1/0	1/0	*1/0	*1/0
200	4/0	4/0	3/0	3/0	2/0	2/0	1/0
250	300M	300M	250M	4/0	3/0	3/0	3/0
300	400M	350M	300M	250M	4/0	4/0	4/0
350	600M	500M	400M	350M	300M	250M	4/0
400	700M	600M	500M	400M	350M	300M	300M

# POWER SPECIFICATIONS

## INNOVA 2000 GENERATOR SYSTEM

REV. DATE: 06/19/06

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)	
		MAX. MOMENTARY	CONTINUOUS
360	324-396	275	32
380	342-418	260	31
400	360-440	247	29
420	378-462	235	28
440	396-484	225	26
460	414-506	215	25
480	432-528	206	24

ALL CALCULATIONS BASED UPON NOMINAL VOLTAGE

NOTE LOW LINE CONDITIONS MAY INHIBIT SOME HIGH kV<sub>p</sub> 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 = 171 KVA)

TABLE B  
 MAXIMUM  
 MOMENTARY  
 POWER  
 DEMAND.

DEMAND	ADVANTX 100
kVa * POWER FACTOR AT	171 0.9
mA	1250
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 225 KVA.