



FEEDER TABLE

PRECISION MPi

REV. DATE: 02/20/03

- CALCULATIONS BASED UPON NOMINAL VOLTAGE, WIRE SIZE IN AWG.
- RECOMMENDED FEEDER SIZES FROM DISTRIBUTION TRANSFORMER TO THE POWER CABINET
- INPUT CONFIGURATION 3 PHASE GROUNDED WYE WITH GROUND, A NEUTRAL IS NOT REQUIRED UNLESS SYSTEM IS CONFIGURED WITH A UPS. IF A NEUTRAL IS USED IT MUST BE TERMINATED PRIOR TO OR INSIDE THE 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.

NOTE: POWER RUN FROM BREAKER TO GENERATOR MUST BE WELDING CABLE OR EQUIVALENT

RUN LENGTH IN FEET	POWER SUPPLY VOLTAGE	
	360-440 400	432-528 480
SIZE OF FEEDERS AND GROUND WIRES (AWG)		
50	* 1	* 1
100	* 1	* 1
150	1/0	* 1
200	2/0	1/0
250	4/0	2/0
300	250M	3/0
350	300M	3/0
400	350M	4/0
450	500M	250M

POWER SPECIFICATIONS

PRECISION MPI

REV. DATE: 03/23/06

VOLTAGE PRIMARY SOURCE IS REQUIRED FOR ALL INSTALLATIONS.
 RANGE OF LINE VOLTAGES :
 NOMINAL LINE VOLTAGE OF 400 TO 480, 3 PHASE
 50 OR 60 Hz.

REQUIRED POWER SUPPLY: WYE DISTRIBUTED

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	
400	360-440	206	31.4	125-A
480	432-528	181	45.5	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 = 18.3 KVA. (MAX DEMAND = 144 KVA)

TABLE B
 MAXIMUM
 MOMENTARY
 POWER
 DEMAND.

DEMAND	
kVa *	144
POWER FACTOR AT	0.73
mA	TBD
kVp	TBD

* DEMAND INCLUDES POWER FOR ENTIRE 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.