



## FEEDER TABLE

### FEEDER TABLE – CT/e, CT PROSPEED AI/FI

- o CALCULATIONS BASED UPON NOMINAL VOLTAGE AND 50 KVA PDU, WIRE SIZE IN AWG.
- o RECOMMENDED FEEDER SIZES FROM DISTRIBUTION TRANS. TO POWER DISTRIBUTION UNIT.
- o THE GROUNDING CONDUCTOR WILL BE THE SAME SIZE AS THE POWER FEEDER. 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.
- o NEUTRAL MUST BE TERMINATED PRIOR TO OR INSIDE THE MAIN DISCONNECT PANEL AND NOT BROUGHT INTO THE POWER DISTRIBUTION UNIT.
- o 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	374-456 415	396-484 440	414-506 460	432-528 480
	SIZE OF FEEDERS AND GROUND WIRES (AWG)					
50	3	3	3	3	4	4
100	3	3	3	3	4	4
150	3	3	3	3	4	4
200	3	3	3	3	4	4
250	2	2	3	3	3	4
300	1	1	2	2	3	3
350	1/0	1	1	2	2	2
400	2/0	1/0	1/0	1	1	2

REV. DATE: 02/26/06

# POWER SPECIFICATIONS

CT/e, CT ProSpeed AI/FI (REV. DATE 12/05/06)

**VOLTAGE**

PRIMARY SOURCE IS REQUIRED FOR ALL INSTALLATIONS.  
 RANGE OF LINE VOLTAGES: NOMINAL LINE VOLTAGE OF 200 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	ABSOLUTE RANGE	CURRENT (AMPS)		MINIMUM STANDARD OVERCURRENT PROTECTION
		MOMENTARY	CONTINUOUS	
**200	180-220	145	43	150-A
**208	187-229	139	42	150-A
380	342-418	76	23	90-A
400	360-440	72	22	90-A
415	374-456	70	21	90-A
440	396-484	66	20	90-A
460	414-506	63	19	70-A
480	432-528	60	18	70-A

(ALL CALCULATIONS BASED UPON NOMINAL VOLTAGE)  
 MINIMUM OVERCURRENT PROTECTION FOR PDU RATING OF 50 KVA.  
 \*\* THESE VOLTAGES CAN NOT BE USED FOR U.S. INSTALLATIONS.

**PHASE-BALANCE.**

PHASE-TO-PHASE VOLTAGES MUST BE WITHIN 3 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 1 CYCLE AND FREQUENCY OF 10 TIMES PER HOUR.

VOLTAGE TRANSIENT OR IMPULSE ON THE INCOMING POWER MUST BE HELD TO A MINIMUM. TRANSIENTS CAUSED BY LIGHTNING, SURGES, LOAD SWITCHING, STATIC ELECTRICITY ETC. CAN CAUSE SCAN ABORTS OR, IN EXTREME INSTANCES, COMPONENT FAILURE IN THE COMPUTER SUBSYSTEM.

**POWER DEMAND**

MAXIMUM POWER DEMAND = 50 KVA. CONTINUOUS = 15 KVA

TABLE B  
 MAXIMUM  
 MOMENTARY  
 POWER  
 DEMAND.

DEMAND	CT/e ProSpeed AI/FI
kVa *	50
POWER FACTOR AT	0.9

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

**DISTRIBUTION TRANSFORMER**

FOR A SINGLE UNIT INSTALLATION, THE MINIMUM TRANSFORMER SIZE IS 75 KVA. A 112.5 KVA TRANSFORMER IS RECOMMENDED DUE TO FUTURE UPGRADES. GE DOES NOT RECOMMEND USING A REGULATION DEVICE.

NOTE: IT IS NOT RECOMMENDED TO POWER THE CT SYSTEM IN A MULTIPLE INSTALLATION WHERE FILM CHANGERS ARE USED. FILM CHANGERS UTILIZE A LARGE NUMBER OF HIGH POWERED CLOSELY SPACED EXPOSURES WHICH MAY COINCIDE WITH THE CT SCAN.