

POWER SPECIFICATIONS

Discovery STE

REV. DATE: 11/Apr/11

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.
 RECOMMENDED 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	
380	342-418	137	30	110-A
400	360-440	130	29	110-A
420	378-462	124	27	110-A
440	396-484	118	26	90-A
460	414-506	113	25	90-A
480	432-528	108	24	90-A

(ALL CALCULATIONS BASED UPON NOMINAL VOLTAGE)

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 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 CONTINUOUS POWER DEMAND = 34 KVA (MAX DEMAND = 90 KVA)

**TABLE B
 MAXIMUM
 MOMENTARY
 POWER
 DEMAND.**

DEMAND	Discovery ST
kVa *	90
POWER FACTOR AT	0.85

* 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 112.5 KVA. GE DOES NOT RECOMMEND USING A REGULATION DEVICE.

NOTE: THE CT SYSTEM MUST NOT BE POWERED 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.



FEEDER TABLE

FEEDER TABLE – DISCOVERY STE

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- 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 GE CABINET.
- THE GROUNDING CONDUCTOR () WILL BE 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
150	2 (1/0)	2 (1/0)	2 (1/0)	3 (1/0)	3 (1/0)	3 (1/0)
200	1 (1/0)	1 (1/0)	2 (1/0)	2 (1/0)	3 (1/0)	3 (1/0)
250	1/0 (1/0)	1/0 (1/0)	1 (1/0)	1 (1/0)	2 (1/0)	2 (1/0)
300	2/0 (1/0)	2/0 (1/0)	1/0 (1/0)	1/0 (1/0)	1 (1/0)	1 (1/0)
350	3/0 (1/0)	2/0 (1/0)	2/0 (1/0)	1/0 (1/0)	1/0 (1/0)	1 (1/0)
400	4/0 (1/0)	3/0 (1/0)	3/0 (1/0)	2/0 (1/0)	2/0 (1/0)	1/0 (1/0)