

POWER SPECIFICATIONS

CT LightSpeed Pro 16/RT/VCT, DISCOVERY CT750/590, OPTIMA CT580

(REV. DATE 18.May.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.
 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 |
|-----------------|----------------|----------------|------------|---|
| | | MAXIMUM | CONTINUOUS | |
| 380 | 342-418 | 253 | 38 | 150-A |
| 400 | 360-440 | 241 | 36 | 150-A |
| 420 | 378-462 | 229 | 34 | 150-A |
| 440 | 396-484 | 219 | 33 | 125-A |
| 460 | 414-506 | 209 | 31 | 125-A |
| 480 | 432-528 | 200 | 30 | 125-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 = 25 KVA (MAX DEMAND = 150 KVA)

TABLE B
 MAXIMUM
 MOMENTARY
 POWER
 DEMAND.

| DEMAND | CT HiSpeed |
|-----------------|------------|
| kVa * | 150 |
| 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 225 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 – CT LightSpeed Pro 16/RT/VCT, DISCOVERY CT750/590, OPTIMA CT580

- o CALCULATIONS BASED UPON NOMINAL VOLTAGE, WIRE SIZE IN AWG.
- o MINIMUM FEEDER SIZES FROM DISTRIBUTION TRANS. TO POWER DISTRIBUTION UNIT.
- o THE RECOMMENDED GROUNDING CONDUCTOR () WILL BE A 1/0 MINIMUM. THIS GROUND WILL RUN FROM THE EQUIPMENT BACK TO THE 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 | | 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 | 1/0 | (1/0) | 1/0 | (1/0) | 1/0 | (1/0) | 1 | (1/0) | 1 | (1/0) | 1 | (1/0) |
| 100 | 1/0 | (1/0) | 1/0 | (1/0) | 1/0 | (1/0) | 1 | (1/0) | 1 | (1/0) | 1 | (1/0) |
| 150 | 1/0 | (1/0) | 1/0 | (1/0) | 1/0 | (1/0) | 1 | (1/0) | 1 | (1/0) | 1 | (1/0) |
| 200 | 1/0 | (1/0) | 1/0 | (1/0) | 1/0 | (1/0) | 1 | (1/0) | 1 | (1/0) | 1 | (1/0) |
| 250 | 2/0 | (1/0) | 2/0 | (1/0) | 1/0 | (1/0) | 1/0 | (1/0) | 1 | (1/0) | 1 | (1/0) |
| 300 | 3/0 | (1/0) | 3/0 | (1/0) | 2/0 | (1/0) | 2/0 | (1/0) | 1/0 | (1/0) | 1/0 | (1/0) |
| 350 | 4/0 | (1/0) | 3/0 | (1/0) | 3/0 | (1/0) | 2/0 | (1/0) | 2/0 | (1/0) | 1/0 | (1/0) |
| 400 | 250M | (1/0) | 4/0 | (1/0) | 3/0 | (1/0) | 3/0 | (1/0) | 3/0 | (1/0) | 2/0 | (1/0) |

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