

# POWER SPECIFICATIONS

PET/CT 560/560FX, 610/710, IQ (8,16 SLICE)

(REV DATE: 25.APR.14)

**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 |
|-----------------|----------------|----------------|------------|---|
|                 |                | MOMENTARY      | CONTINUOUS |   |
| 380             | 342-418        | 137            | 30         | 110-A                                   |
| 400             | 360-440        | 130            | 29         | 110-A                                   |
| 420             | 378-462        | 124            | 27         | 100-A                                   |
| 440             | 396-484        | 118            | 26         | 100-A                                   |
| 460             | 414-506        | 113            | 25         | 90-A                                    |
| <b>480</b>      | <b>434-528</b> | <b>108</b>     | <b>24</b>  | <b>90-A</b>                             |

(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 = 30 KVA (MAX DEMAND = 90 KVA)

TABLE B  
 MAXIMUM  
 MOMENTARY  
 POWER  
 DEMAND.

| DEMAND          | D600\690 ELITE |
|-----------------|----------------|
| 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: DO NOT USE AN EXISTING DISTRIBUTION TRANSFORMER TO POWER A SYSTEM IF OTHER X-RAY EQUIPMENT, USING RAPID FILM CHANGERS, IS CONNECTED TO THE EXISTING TRANSFORMER.



## FEEDER TABLE

### FEEDER TABLE – PET/CT 560/560FX/600/690 ELITE/610,710,IQ (16 SLICE)

- o CALCULATIONS BASED UPON NOMINAL VOLTAGE, WIRE SIZE IN AWG.
- o RECOMMENDED FEEDER SIZES FROM DISTRIBUTION TRANS. TO POWER DISTRIBUTION UNIT.
- o THE 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<br>IN FEET | POWER SUPPLY VOLTAGE |        |                |        |                |        |                |        |                |        |                        |              |
|-----------------------|----------------------|--------|----------------|--------|----------------|--------|----------------|--------|----------------|--------|------------------------|--------------|
|                       | 342–418<br>380       |        | 360–440<br>400 |        | 378–462<br>420 |        | 396–484<br>440 |        | 414–506<br>460 |        | <b>434–528<br/>480</b> |              |
|                       | FEEDER               | GROUND | FEEDER         | GROUND | FEEDER         | GROUND | FEEDER         | GROUND | FEEDER         | GROUND | FEEDER                 | GROUND       |
| 50                    | 2                    | (1/0)  | 2              | (1/0)  | 3              | (1/0)  | 3              | (1/0)  | 3              | (1/0)  | <b>3</b>               | <b>(1/0)</b> |
| 100                   | 2                    | (1/0)  | 2              | (1/0)  | 3              | (1/0)  | 3              | (1/0)  | 3              | (1/0)  | <b>3</b>               | <b>(1/0)</b> |
| 150                   | 2                    | (1/0)  | 2              | (1/0)  | 3              | (1/0)  | 3              | (1/0)  | 3              | (1/0)  | <b>3</b>               | <b>(1/0)</b> |
| 200                   | 2                    | (1/0)  | 2              | (1/0)  | 3              | (1/0)  | 3              | (1/0)  | 3              | (1/0)  | <b>3</b>               | <b>(1/0)</b> |
| 250                   | 1                    | (1/0)  | 1              | (1/0)  | 2              | (1/0)  | 2              | (1/0)  | 2              | (1/0)  | <b>3</b>               | <b>(1/0)</b> |
| 300                   | 1/0                  | (2/0)  | 1/0            | (1/0)  | 1              | (1/0)  | 1              | (1/0)  | 2              | (1/0)  | <b>2</b>               | <b>(1/0)</b> |
| 350                   | 2/0                  | (2/0)  | 1/0            | (2/0)  | 1/0            | (1/0)  | 1              | (1/0)  | 1              | (1/0)  | <b>1</b>               | <b>(1/0)</b> |
| 400                   | 2/0                  | (2/0)  | 2/0            | (2/0)  | 1/0            | (1/0)  | 1/0            | (1/0)  | 1/0            | (1/0)  | <b>1</b>               | <b>(1/0)</b> |

(REV. DATE 25.APR.14)