POWER SPECIFICATIONS

INDICO 100 SERIES 65 kW GENERATOR SYSTEM

REV. DATE: 05/Apr/11

VOLTAGE

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

RECOMMENDED POWER SUPPLY: DELTA OR 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	NORMAL RANGE ±10 PERCENT	CURRENT (AMPS)		MINIMUM STANDARD OVERCURRENT PROTECTION
		MAX. MOMENTARY	CONTINUOUS	
400	360–440	123	3	100–A
480	432–528	102	3	100–A

MAXIMUM MOMENTARY LINE CURRENTS INDICATED AT MINIMUM LINE 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 = 2.4 KVA

TABLE B MAXIMUM MOMENTARY POWER DEMAND.

DEMAND	INDICO 100
kVa *	85
POWER FACTOR AT	n/a
mA	800
kVp	120

* DEMAND INCLUDES POWER FOR ENTIRE GENERATOR SYSTEM. LINE VOLTAGE REGULATION AT MAXIMUM POWER DEMAND MUST BE LESS THAN OR EQUAL TO 10 PERCENT.

DISTRI–BUTION TRANS–FORMER

FOR A SINGLE UNIT INSTALLATION, THE MINIMUM TRANSFORMER SIZE IS 112.5 KVA.

FEEDER TABLE

FEEDER TABLE INDICO 100 65 kW

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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 OF SAME SIZE AS THE FEEDER WIRES WITH 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.
- IF THE GENERAL ELECTRIC EQUIPMENT IS BEING FED BY A DELTA SECONDARY, IT IS RECOMMENDED THAT THE B PHASE ON THE SECONDARY BE CONNECTED TO GROUND TO PREVENT DAMAGE TO THE SYSTEM.
- * 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					
		360–440 400				432–528 480
50		* 2 (1/0)				* 2 (1/0)
100		* 2 (1/0)				* 2 (1/0)
150		2 (1/0)				* 2 (1/0)
200		1 (1/0)				2 (1/0)
250		1/0 (1/0)				2 (1/0)
300		2/0 (2/0)				1 (1/0)
350		3/0 (3/0)				1/0 (1/0)
400		3/0 (3/0)				1/0 (1/0)