

1.3.2 Generator Power Requirements (Cont)

The table below depicts the power requirements for the 40 kW CMP 200® / CMP 200® DR X-ray generators.

Line Voltage	208 VAC - 5% to 230 VAC + 10%, 1 phase.
	208 VAC - 5% to 230 VAC + 10%, 3 phase.
	400 VAC ± 10%, 3 phase.
	480 VAC ± 10%, 3 phase.
Line Frequency	50/60 Hz.
Momentary Current	275 Amps at 208 VAC (1 phase).
	154 Amps/phase at 208 VAC (3 phase).
	250 Amps at 230 VAC (1 phase).
	139 Amps/phase at 230 VAC (3 phase).
	80 Amps/phase at 400 VAC.
	65 Amps/phase at 480 VAC.
Nominal Current *	≤5 Amps.
Momentary Power Consumption	55 kVA.

The table below depicts the power requirements for the 50 kW CMP 200® / CMP 200® DR X-ray generators.

Line Voltage	208 VAC - 5% to 230 VAC + 10%, 3 phase.
	400 VAC ± 10%, 3 phase.
	480 VAC ± 10%, 3 phase.
Line Frequency	50/60 Hz.
Momentary Current	192 Amps/phase at 208 VAC.
	174 Amps/phase at 230 VAC.
	100 Amps/phase at 400 VAC.
	80 Amps/phase at 480 VAC.
Nominal Current *	≤5 Amps.
Momentary Power Consumption	65 kVA.

The table below depicts the power requirements for the 65 kW CMP 200® DR X-ray generators.

Line Voltage	400 VAC ± 10%, 3 phase.
	480 VAC ± 10%, 3 phase.
Line Frequency	50/60 Hz.
Momentary Current	125 Amps/phase at 400 VAC.
	105 Amps/phase at 480 VAC.
Nominal Current *	≤5 Amps.
Momentary Power Consumption	85 kVA.

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1.3.2 Generator Power Requirements (Cont)

The table below depicts the power requirements for the 80 kW CMP 200® DR X-ray generators.

Line Voltage	400 VAC \pm 10%, 3 phase. 480 VAC \pm 10%, 3 phase.
Line Frequency	50/60 Hz.
Momentary Current	155 Amps/phase at 400 VAC. 130 Amps/phase at 480 VAC.
Nominal Current *	\leq 5 Amps.
Momentary Power Consumption	105 kVA.

* Nominal Current = Generator standby current only. External or installer-supplied equipment connected to the generator may increase the nominal current beyond the values shown.

The following table defines the power line requirements for the generators.

NOTE: THE FOLLOWING TABLE CONTAINS RECOMMENDED VALUES FOR THE WIRE SIZES BETWEEN THE MAINS DISCONNECT AND THE GENERATOR. THE ACTUAL VALUES USED AT AN INSTALLATION ARE DEPENDENT ON THE QUALITY OF THE INPUT LINE (VOLTAGE LEVEL), THE CURRENT REQUIREMENTS, AND THE LENGTH OF THE CABLE RUN, AND MUST BE CONFIRMED BY THE INSTALLER.

FINAL SELECTION OF GENERATOR INPUT WIRE AND DISCONNECTS AS WELL AS THE CABLING FROM THE DISTRIBUTION TRANSFORMER TO THE MAINS DISCONNECT MUST MEET THE REQUIREMENTS OF THE LOCAL ELECTRICAL CODES, AND IS USUALLY DETERMINED BY HOSPITAL / CONTRACTOR ENGINEERING.

THE RATINGS LISTED CONSIDER THE GENERATOR REQUIREMENTS ONLY. THE INSTALLER MUST MAKE THE NECESSARY COMPENSATION FOR ADDITIONAL LOAD REQUIREMENTS.

A POOR QUALITY INPUT LINE MAY RESULT IN THE INSTALLER HAVING TO DERATE THE GENERATOR'S MAXIMUM POWER.

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1.3.2 Generator Power Requirements (Cont)

Generator Series and Mains Voltage	Minimum Recommended Mains Disconnect to Generator (15 ft/5 m max)	Generator Momentary Line Current	Minimum Recommended Generator Service Rating	Minimum Recommended Distribution Transformer Rating	Minimum Recommended Ground Wire Size *	Apparent Mains Resistance
32 kW 208 VAC, 1p.	#2 *** (33 mm ²)	220 A	120 A	45 kVa	#2 (33 mm ²)	0.045 Ω
32 kW 230 VAC, 1p.	#2 *** (33 mm ²)	200 A	120 A	50 kVa	#2 (33 mm ²)	0.055 Ω
32 kW 208 VAC, 3p.	#4 ** (21 mm ²)	122 A	100 A	45 kVa	#4 (21 mm ²)	0.07 Ω
32 kW 230 VAC, 3p.	#4 ** (21 mm ²)	110 A	100 A	45 kVa	#4 (21 mm ²)	0.09 Ω
32 kW 400 VAC, 3p.	#6 ** (13.3 mm ²)	65 A	100 A	45 kVa	#6 (13.3 mm ²)	0.27 Ω
32 kW 480 VAC, 3p.	#6 ** (13.3 mm ²)	55 A	100 A	45 kVa	#6 (13.3 mm ²)	0.40 Ω
40 kW 208 VAC, 1p.	#2 *** (33 mm ²)	275 A	120 A	65 kVa	#2 (33 mm ²)	0.035 Ω
40 kW 230 VAC, 1p	#2 *** (33 mm ²)	250 A	120 A	65 kVa	#2 (33 mm ²)	0.045 Ω
40 kW 208 VAC, 3p.	#4 ** (21 mm ²)	154 A	100 A	55 kVa	#4 (21 mm ²)	0.055 Ω
40 kW 230 VAC, 3p.	#4 ** (21 mm ²)	139 A	100 A	55 kVa	#4 (21 mm ²)	0.075 Ω
40 kW 400 VAC, 3p.	#6 ** (13.3 mm ²)	80 A	100 A	45 kVa	#6 (13.3 mm ²)	0.22 Ω
40 kW 480 VAC, 3p.	#6 ** (13.3 mm ²)	65 A	100 A	45 kVa	#6 (13.3 mm ²)	0.32 Ω
50 kW 208 VAC, 3p.	#2 *** (33 mm ²)	192 A	100 A	65 kVa	#2 (33 mm ²)	0.045 Ω
50 kW 230 VAC, 3p.	#2 *** (33 mm ²)	174 A	100 A	65 kVa	#2 (33 mm ²)	0.055 Ω
50 kW 400 VAC, 3p	#6 ** (13.3 mm ²)	100 A	100 A	65 kVa	#6 (13.3 mm ²)	0.17 Ω
50 kW 480 VAC, 3p.	#6 ** (13.3 mm ²)	80 A	100 A	65 kVa	#6 (13.3 mm ²)	0.24 Ω
65 kW 400 VAC, 3p	#6 *** (13.3 mm ²)	125 A	100 A	85 kVa	#6 (13.3 mm ²)	0.13 Ω
65 kW 480 VAC, 3p	#6 *** (13.3 mm ²)	105 A	100 A	85 kVa	#6 (13.3 mm ²)	0.19 Ω
80 kW 400 VAC, 3p	#6 *** (13.3 mm ²)	155A	100A	105 kVa	#6 (13.3 mm ²)	0.10 Ω
80 kW 480 VAC, 3p	#6 *** (13.3 mm ²)	130A	100A	105 kVa	#6 (13.3 mm ²)	0.15 Ω

* Refer to 1.3.3 for general grounding information. Maximum wire gauge is # 2 AWG Cu (33 mm²).

** Maximum wire gauge is # 4 AWG Cu (21 mm²).

*** Maximum wire gauge is # 2 AWG Cu (33 mm²).

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