

[4] FUNDAMENTALS OF ELECTRICAL LOADS

■ OPERATING REQUIREMENTS OF ELECTRICAL LOAD

Power and operating requirements of electrical loads are described below to help users select required generator output for the electrical loads they intend to use or to determine power loads for a given generator output.

The following factors must be considered for this purpose.

(1) Knowing current

The current necessary for an electrical load is well evident when it is indicated on the machine or in the machine specifications. An appliance can be used if its current is lower than the rated current of the generator and it cannot be used if its current is higher than the rated current.

(2) Knowing power consumption

Power consumption is also an accurate index for selection. With this method, only power factor should be taken into consideration since the efficiency of the load has been included in the power consumption figure. The power factor varies with loads, however.

$$\text{Input (kW)} = \frac{\text{Power consumption (kW)}}{\text{Power factor}}$$

Power factors of typical electrical appliances are:

	Power factor
Single phase induction motor	0.75-0.8
Three phase induction motor	0.75-0.8
Refrigerator (compressor motor)	0.75-0.8
Fluorescent lamp	0.6-0.8
Incandescent lamp and electric heater	1.0
AC motor	0.6-0.8

(3) Knowing input from the power factor and efficiency

The capacity of an electrical load is often indicated by power (kW) or horsepower (HP) instead of current or power consumption. These indications represent "output", not "input" which means actual power consumption of the load. Input can be calculated from output using the following formulae.

$$1 \text{ HP} = 746 \text{ W} \approx 0.746 \text{ kW}$$

Power factor < 0.8 (usually assumed to be 0.8, although it depends on load as described above)

Efficiency < 85% (assumed to be 85% on the average, although this also depends on load)

$$\text{Output (kW)} \div \text{Input (kW)}$$

$$\text{Efficiency}$$

$$\text{Output (kW)} \div 0.746 = \text{Input (HP)}$$

$$\frac{\text{Efficiency}}{\text{Power factor}} = \text{Generator capacity (kW)}$$

For example, for a motor with an 800-W output

$$800 \text{ W} = 0.8 \text{ kW (80% efficiency, 85%)} \\ 0.85$$

$$0.8 \text{ kW} \div 0.746 = 1.07 \text{ kW (power factor 0.8)} \\ 0.8$$

(4) Knowing starting current

Described above (1)-(3) is the current which is consumed during operation. Also important is the current which flows at the start.

This current, although momentarily, is usually much larger than the operating current. Called "locked rotor current".

Although starting current differs with machine, the required starting current is approximately three times the operating current, when the machine is loaded at the time of starting (e.g., with a submarine pump, it is installed in water). Therefore, for already-loaded machines or split phase type motors with a large starting current, the current requirement is discontinuous. Most generators have a capacity to deliver a large intermittent power (which is different from the rated current indicated) to allow a margin for starting such machines. However, even this has its limits.

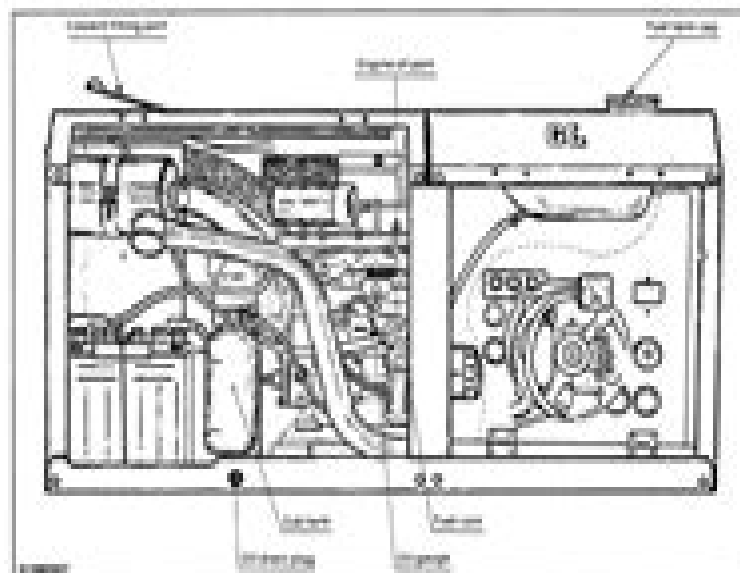
That is the reason why the machines should be started without a load or two or more machines should be started separately.

[5] LUBRICANTS FUEL AND COOLING WATER



Do not use ether or starting fluid. Severe engine damage will occur.

Item	Capacity	Grade
Engine Crank Case	OL-2000	2.4 P
	OL-4000-S	2.82 ± 0.5 gals
	OL-4000	2.9 P
	OL-10000-S	3.75 ± 0.5 gals
	OL-2000	3.4 P
	OL-4000-S	3.75 ± 0.5 gals
	OL-4000	3.8 P
	OL-10000	4.9 P
	OL-2000	1.1 P
	OL-4000-S	1.81 ± 0.5 gals
	OL-4000	1.9 P
	OL-10000-S	2.38 ± 0.5 gals
Cooling Water	OL-2000	2.4 P
	OL-4000-S	2.82 ± 0.5 gals
	OL-4000	2.9 P
	OL-10000-S	3.75 ± 0.5 gals
	OL-2000	2.4 P
	OL-4000-S	2.82 ± 0.5 gals
	OL-4000	2.9 P
	OL-10000-S	3.75 ± 0.5 gals



Kubota Diesel Generator Service Manual

Xiaolong Qi



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