

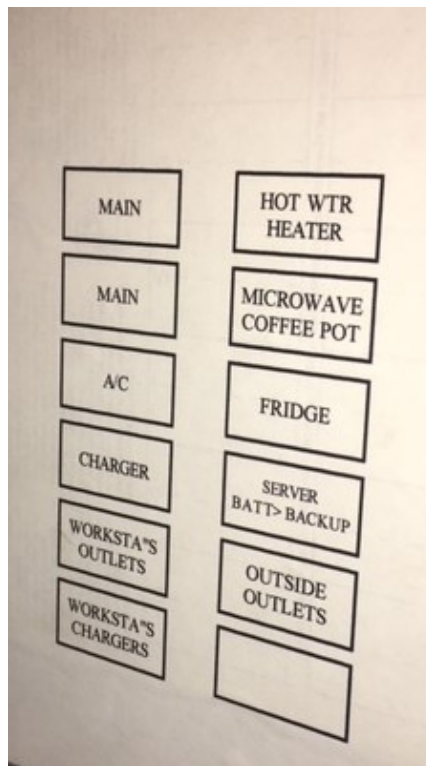
FEMORS TRAILER ELECTRICAL DOCUMENTATION

Femors trailer includes both 120VAC breaker box as well as 12VDC fusing. 12VDC appliances (including ceiling lights) will automatically be powered from a storage source if the 120VAC is lost. This document does not currently include further information on the 12VDC wiring.

120VAC wiring has an automatic switch that will disconnect from shore power and utilize the generator if the generator is running. If the generator quits, the system will automatically shift to shore power if available. The wiring receptacles native to the FEMORS trailer, and its native extension cord, are 240V (120-neutral-120) NEMA 14-50. (Straight blades, with a round pin for GROUND.)

The 120VAC wiring of the FEMORS trailer is exactly like a house – the power panel has 240VAC (with neutral) wired to it, and every other breaker comes from the alternate leg. There are two inlet 50A circuit breakers (ganged) to protect the supplier of the power. Then each circuit is 120VAC, alternately from one leg, and then the other just like a house. I did not observe any other ganged (240VAC) appliance breakers in the box.

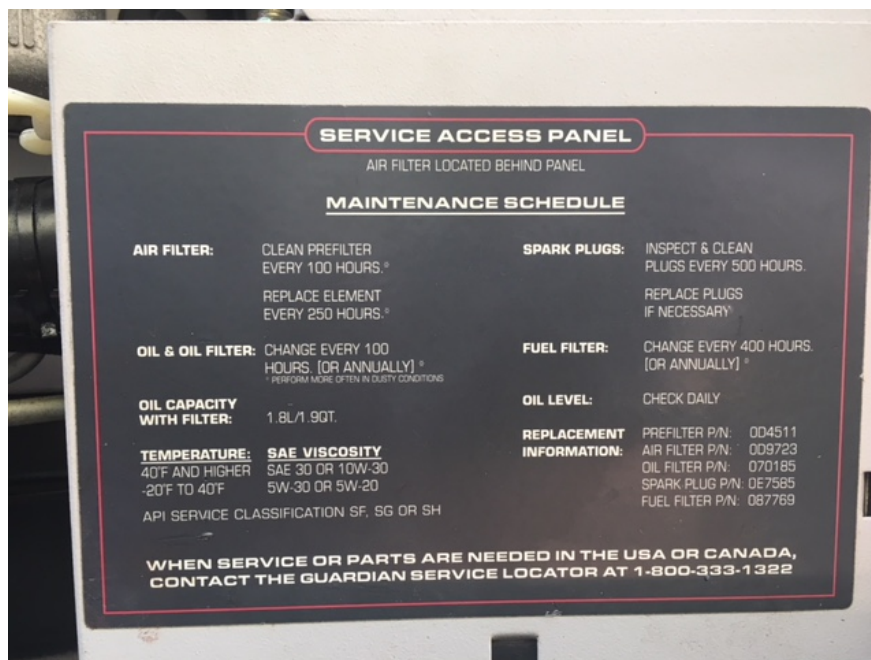




Line 1	Line 2	Comments
50A Main		
	50A Main	Ganged to the other main inlet
A/C 30A		Air conditioning is 120VAC
	Battery Charger	
Workstation outlets		
	Workstation chargers	
Hot Water Heater		Suggest this be turned OFF
	Microwave/coffee pot	
Fridge		
	Server	
Outside lights		
	Unused	

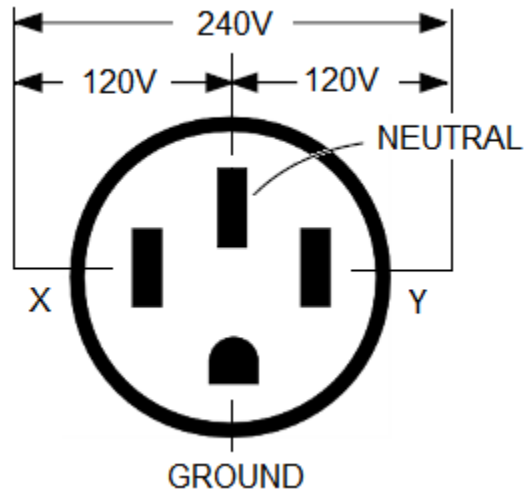
By lucky happenstance, the definition of Line 1 and Line 2 above, appears to agree with the one that I chose for the 10kw Generator. So the major load (the Air conditioner) from the FEMORS trailer will be on L1 of the 10kw Generator if used.

The FEMORS propane generator appears to be rated for 7500 watts and is a V-2 (2 cylinder) engine.





NEMA 14-50R



In the above drawing, Y= "Line 1" and X = "Line 2" in my arbitrary assignment.



10KW Generator with arbitrary line numbering.