KOHLER® POWER SYSTEMS

Residential Standby Power System

Installation Review Worksheet

The services and materials listed below are based on a typical standby power system where a separate *Essential Loads* circuit has been segregated from the existing main electrical service.

Basic Installation Includes

Onsite Services:	**Materials Included:** (Installations must meet applicable local codes)	***Est. Cost:***
Physically mount generator and transfer switch:		
Mount generator	Gravel	
Ground generator	Ground rod, ground strap	
Bolt transfer switch to wall	Hardware	
Bolt subpanel to wall	Subpanel with breakers, hardware	
Pipe fuel to generator: *		
Run fuel to generator	Black iron pipe	
Connect fuel line to generator	Flexible fuel line †	
Electrical connection:		
Wire transfer switch to main panel	Copper wire, 3 conductor, conduit †	
Wire switch to subpanel	Copper wire, 3 conductor, conduit †	
Isolate emergency loads to subpanel	Circuit breaker, 40 amp (8.5RES) or 50 amp (12RES); use existing wiring †	
Wire power leads from generator to switch	Copper wire, 3 conductor, conduit †	
Wiring for battery charger	120 volt outlet plus cost of wiring †	
Wire DC control wire from generator to switch	Conductors, conduit †	

* A gas meter upgrade may be required in order to provide sufficient fuel capacity for the generator and other appliances.

† Fuel line pipe sizes and wire sizes can change depending on distances; see sales associate.

Estimated Cost for your Kohler Generator System

Generator	**Size/kW**	**Furnished Price**	**Furnished & Installed Price** ‡
Air Cooled: (Natural Gas/LP Vapor)			
8.5RES	8,500 Watts	$ _____	$ _____
12RES	12,000 Watts	$ _____	$ _____
Delivery Cost		$ _____	$ _____
Cost of Permits		$ _____	$ _____
Estimated Total		$ _____	$ _____

‡ Includes Basic Installation

Residential Generator Set/Transfer Switch Installation Checklist

Read and understand all of the safety precautions found in the operation and installation manuals. Make the following installation checks before starting the generator set.

Note: Use this form as a general guide, along with any applicable codes or standards. Comply with all applicable codes and standards. Improper installation voids the warranty.

Yes

Enclosure

❑ 1. Does the location comply with clearances stated in the generator set operation and installation manual?

❑ 2. Is the enclosure clean with all materials not related to the emergency power supply system removed?

❑ 3. Is the area around the installation clean and free of combustible materials (leaves, dry grass, etc.)?

❑ 4. Do the enclosure doors close completely and lock?

Engine and Mounting

❑ 5. Is the mounting surface properly leveled?

Lubrication

❑ 6. Is the engine crankcase filled with the specified oil?

Cooling and Ventilation

❑ 7. Is the air inlet clear of obstructions?

Fuel

❑ 8. Is the fuel piping installed in accordance with applicable codes and standards?

❑ 9. Are flexible fuel lines installed between the generator set fuel inlet and fuel piping?

❑ 10. Is 7–11 in. (4–6 oz.) gas pressure available at the fuel regulator inlet?

❑ 11. Does the gas solenoid valve function?

Exhaust

❑ 12. Does the exhaust system outlet location prevent entry of exhaust gases into buildings or structures?

Yes

AC Electrical System

❑ 13. Do the nameplate voltage/frequency ratings of the generator set and transfer switch match normal/utility source ratings?

❑ 14. Do the generator set load conductors have adequate ampacity and are they correctly connected to the circuit breakers and/or the emergency side of the transfer switch?

❑ 15. Are the generator set load leads, battery charger cables, and AC wiring installed in separate conduit from engine starting leads and DC wiring?

❑ 16. Is the battery charger AC circuit connected to the corresponding voltage?

❑ 17. Is equipment grounded in accordance with local codes?

Transfer Switch, Remote Control System, Accessories

❑ 18. Does the transfer switch mechanism operate without binding?
Note: Disconnect all AC sources and operate the transfer switch manually.

❑ 19. Are the transfer switch AC conductors correctly connected? Verify lead designations using the appropriate wiring diagrams.

❑ 20. Is all other wiring connected, as required?

Batteries and DC Electrical System

❑ 21. Does the battery have the specified CCA rating and voltage?

❑ 22. Are the engine starting cables connected to the battery?