

Advantages of a Diesel Engine

What type of generator should I buy and how safe it is?

Diesel fuel is considered safer in that it is less explosive. Since it has a much higher flash-point, the risk of an blast or fire is greatly reduced.

Diesel engines have a much higher compression ratio than comparative petrol engines. As a result, they are built more ruggedly resulting in greater durability. Diesel engines are much more fuel-efficient. A savings of up to 40% less fuel consumption can be realized which would cut fuel costs heavily in this current environment. Diesel engine is much more efficient and preferable as compared with gasoline engine due to the following reasons:

- Modern diesel engines have overcome disadvantages of earlier models of higher noise and maintenance costs. They are now quieter and require less maintenance as compared with gas, petrol or similar size.
- They are more rugged and reliable.
- There is no sparking as the fuel auto-ignites. The absence of spark plugs or spark wires lowers maintenance costs.
- Fuel cost per Kilowatt produced is thirty to fifty percent lower than that of gas engines.
- Overall Lifespan is 5-10 longer than petrol engines

Diesel engines typically offer several advantages over spark ignited petrol engines and it's design to run long hours in all different environment conditions which might not be an option for most of petrol or gas engine. Also service frequency to diesel engines depending on varies engine speeds is not as often as with petrol /gas engines.

Low speed 1500/1800 rpm water cooled diesel unit operates for 12,000 to 30,000 hours before any major maintenance is necessary. An 1500 rpm water cooled gas unit usually operates for 3000-5,000 hours before it needs general servicing. Gas units and petrol burn hotter than diesel units, and hence they have a significantly shorter life compared with diesel units. High speed 3000/3600 rpm air cooled diesel unit operates for 5,000 to 10,000 hours before any major maintenance is necessary. But, 3000/3600 rpm air cooled petrol unit usually operates for 500-1000 hours before it needs servicing.

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