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Frequently Asked Questions....

Q. Advanced Dynamo Generators seem expensive. Why shouldn't I just purchase two smaller generators for a lower upfront cost to meet our remote power needs?

A. It is true that two standby generators can be purchased for less than one Advanced Dynamo heavy duty generator. However, on closer examination, that cost difference is quickly eliminated with additional replacement, fuel and maintenance costs. The reasoning behind this observation is this:

- Each of the smaller generators consumes the same amount of fuel as the Advanced Dynamo generator, doubling your fuel costs. This is because the smaller generators are two-cylinders and they operate at a much higher RPM (3,600 vs. 1,800 for the Advanced Dynamo four-cylinder engine). If the cost of gasoline is \$3.00 per gallon, if you use the two smaller generators for 40 hours per week it could be adding up to \$3,000 per year in additional fuel costs.
- Calculated at the recommended oil change interval of 150 hours for the two smaller generators, vs. the oil change interval of 400 hours for the Advanced Dynamo generator, the maintenance costs of up to 10 additional oil changes per year can add up to another \$700 in operational costs.
- Smaller generators have a shorter life span than the Advanced Dynamo generator as they operate at a much higher RPM. Compared to the average life span of the Advanced Dynamo generator at 10,000 hours, the smaller generators with their typical lifespan of only 3,000 hours you would need to replace your two generators at least twice in the same time period.
- The Advanced Dynamo generator is built specifically to fit in the generator compartment of the Winnebago commercial RV shell. As it is the smallest generator of its size on the market, it takes up much less room than the two smaller generators. Since space in the basement compartments is always limited, the two smaller generators would use up valuable space that could be used for storage and support equipment.

Q. How can Advanced Dynamo Industries claim a 10,000 hour full load operational service life when other generator manufacturers state a substantially lower service life, or make no claim at all?

A. Advanced Dynamo Industries anticipates a full load service life of 10,000 hours for its generator lines due to the patented design and specifically chosen high quality generator components. These components include the heavy duty industrial Hyundai (gasoline) or Kubota (diesel) engines, an over capacity AC alternator and the 150% oversized cooling system. If you follow these simple installation and maintenance prerequisites, your Advanced Dynamo generator will provide reliable power and a long service life.

- High Operational Heat is one of the main factors in premature engine failure. Advanced Dynamo generators are designed to be installed in conjunction with the Advanced Dynamo Heat / Exhaust Riser Pipe System. This patented system is effective in directing the generators exhaust and heat

(particularly from the catalytic converter) away from the generator. This allows the generator to operate in a much reduced ambient temperature environment.

- Another common major factor is a lack of adequate lubrication. Starting with the initial 50 hour break-in, the generator oil must be changed every 400 hours using full synthetic Mobile One Extended Duty 10w-30 weight oil. In colder climates we recommend a 5w-30 weight full synthetic oil, and for high heat climates, a 20w-50 full synthetic oil. A high capacity oil filter (as specified in the maintenance guide) is also required at each oil change interval.
- Check the power box every time you start your Advanced Dynamo generator to look for any error codes. The power box VDO identifies any issues and displays an error code so that it is simple to troubleshoot and repair as quickly as possible.
- Your Advanced Dynamo generator will come with a schedule and instructions for all required maintenance procedures. Performing these procedures at their required intervals will ensure thousands of hours of trouble free service.

Q. How do I know what generator KW output option I need to adequately supply the remote power needs of my specialty vehicle?

A. To properly size a generator, you will need to develop a complete wattage list of all of the electrical components that will be utilized on board along with their associated maximum operational consumption requirements (quantity x watts at full load = total KW required).

- [Click here for a fillable sample chart.](#) Remember that Watts = Volts x Amps.
- Once you have completed the chart, your vehicles electrical needs can be determined.
- The experts at Advanced Dynamo can help you decide which generator is right for your application.
- Note that as a rule of thumb, the generator should supply approximately 120% of your maximum land line draw when everything is turned on. For example: A 50 Amp land line which consists of two legs at 50 Amps each equaling a total of 100 Amps = 12 Kw. $12 \text{ Kw} \times 120\% = 14.4 \text{ Kw}$. Therefore you would need a 15 Kw generator.