



Frequently Asked Questions

EFOY Fuel Cell

Question 1 – How does the EFOY Fuel Cell work?

The EFOY Fuel Cell directly converts liquid methanol into electrical current. The basic principle is an electrochemical process also known as “cold combustion”.

Directly connected to the battery in your motor home the EFOY continuously monitors the charge fully automatically. Once the battery voltage drops below 12.3V, the fuel cell automatically cuts in and charges the battery. Once the cut-off voltage is reached (14.2V) the fuel cell automatically returns to standby mode.

Question 2 – What can I do with the EFOY Fuel Cell?

With an EFOY Fuel Cell you can power practically any electrical device whilst travelling. The fuel cell provides constant long-term power for such equipment as lighting, kitchen appliances, personal appliances, navigator systems and heating for example.

Question 3 – Can I power an entire motor home an just 50 watts?

The average power needed by a motor home is around 600-900 watt hours per day (25-38 Watts) depending on individual power consumption. There are 3 models of the EFOY Fuel Cell available to suit all your power requirements.

Question 4 - How do I install an EFOY Fuel Cell?

The EFOY comes complete with an installation set which includes a mounting plate for simple installation. Recommended installation locations are in the sub-floor compartment, the sub-floor itself or the rear storage area.

Question 5 – How safe are EFOY Fuel Cells?

EFOY Fuel Cells meet the highest safety and quality standards. Including those governing installation in motor vehicles. EFOY is the world's first fuel cell to carry the certifications ECE R-10 (installation and operation in motor vehicles), CE and TÜV SÜD's "safety-tested and monitored fuel cell system".

Question 6 – How sensitive is the unit to vibrations?

The unit has been subjected to years of intensive development and testing in conjunction with leading automotive manufacturers. The fuel cell will withstand the shake test without a problem, provided it has been installed correctly.

Question 7 – What exhaust gases does the unit produce?

None. The only byproducts are carbon dioxide and water.

Question 8 – Can I also use the unit on my boat?

Yes, you can.

Question 9 – In what temperature range do fuel cells operate?

EFOY has a guaranteed safe operation between ambient air temperatures of -20 °C and +40 °C.

Question 10 – Do you recommend removing the unit from the vehicle during the wintertime?

It may be advisable to remove the unit if it won't be used for a long period of time in order to cut energy costs. Store the removed unit where it will be protected from freezing temperatures.

Question 11 – Does the unit require any maintenance?

No, the units are maintenance free.

Question 12 – Can I operate the unit as a hybrid system with a solar cell?

Yes, and a number of customers do so.

Question 13 – What advantages does EFOY offer over ordinary power sources?

The units are extremely quiet and environmentally friendly, weighs only 7.5kg, runs fully automatically and are always available.

Question 14 – Why do EFOY Fuel Cells use pure Methanol?

Methanol is an excellent source of energy, is a clean fuel, quickly biodegradable and environmentally friendly. It is the only liquid that can be converted directly into electricity easily and safely.

Question 15 – What is pure Methanol?

Methanol is an alcohol that occurs naturally such as in trees, cotton bushes or oils. Methanol is produced industrially and increasingly out of renewable resources.

Question 16 – How much energy does a 10L fuel cartridge contain?

10L of methanol contains 9.1kWh (760Ah) of power, which is enough to provide 130 hours of TV or 910hrs of light (10w), for example.

Question 17 – Where and how can I purchase pure Methanol?

Pure Methanol for the EFOY can be purchased directly through Webasto in Australia. Contact our office for supply.

The EFOY can only run on pure methanol, not other variants.