

PWMs explained

Contrary to popular belief on places like “Green Source” the real purpose of a PWM controller is reduce the back emf of the load and provide more usable energy to the electrolysis reaction. All too often these so called experts with little or no traditional scientific training regurgitate half truths and pure ignorance to pretend to know what they are talking about and win the confidence of the scientifically untrained masses

A PWM power supply is originally designed as a motor speed control ,which it is well designed for and then put to use as an electrolysis control unit as it is able to fix the current at a given value.

This is ideal to lock in the current drawn , and reduce an excessive load on the vehicle electrical system..... but A PWM unit also is designed to reduce back voltage as produced by a n inductive load of a motor and produce a more efficient series of square waves to minimize energy wastage. However an electrolysis system does not have an inductive load and has no back voltage to overcome and so the extra circuitry of the PWM and square wave production is simply a waste of electronics , a waste of energy and a waste of money

Ideally the best circuit to use In this event is a MOSFET circuit which allows the current to be controlled and locked at a predetermined values and not waste energy or your money on expensive circuitry that dissipates energy as heat to the expense of producing hydrogen

There are many MOSFET power control circuits that Are shown on youtube and google , that are a fraction the price of the expensive commercially available circuits such as the MXA 067, that can be easily built and used to control the HHO systems

In Fact H.F.S has developed a very efficient and simple circuit to control the Systems which we manufacture.

Some people will tell you they are trying to make the High frequency PWM produce resonance within the electrolysis cell.. These PWM units oscillate at 100 to 5000 hertz... which is a far cry from the required resonant frequency of several billion hertz. Moral to the story ,, dont waste your money .