

THE CLIVEWAY.

“THE ULTIMATE INVERTER SWITCHING ARRANGEMENT.”

CONGRATULATIONS on purchasing the simplest way to make your inverter installation fully flexible and as “SAFE AS HOUSES”.

MAKE SURE THE MAINS HOOK-UP LEAD IS DISCONNECTED FROM THE CARAVAN, BOAT OR MOTORHOME BEFORE YOU START.

The CLIVEWAY is a different approach to achieving the same objective, that is a “Safe as Houses” arrangement with earth leakage protection using an RCD and automatic changeover of all your socket outlets from mains to inverter whenever the inverter is turned on. The CLIVEWAY will work with any type or size of inverter with an output of 240V. Installation is not difficult but, unless you are a qualified electrician, we recommend getting one to install the unit or, at least, to check over your work.

Most motorhomes, campervans and caravans have at least two if not three circuit breakers situated inside the mains consumer unit alongside the primary RCD that provides protection when operating via the mains hook-up. The RCD will open if the mains supply has been able to leak and the detection levels of the CLIVEWAY are exactly the same as a domestic RCD. Typically one circuit breaker will be rated at 6amps and provides overload protection for the built in mains charger, the mains part of the fridge, the igniter for the gas hob etc.

The remaining circuit breakers are rated at 10 Amps. One of these 10 Amp breakers will supply all the sockets in the vehicle.

PREPARATION

You will need to identify the circuit breaker that feeds the sockets and the outgoing three-core cable. If you are lucky, there will be sufficient spare cable to be able to cut it outside of the consumer unit and fit the kettle-type socket (provided) and connect the 13A plug (provided) to the other end, that connects to the 13A sockets. If not, then disconnect this three-core cable and attach another short cable terminated with the 10A kettle-type socket. Fit the 13A plug to the cable that you've disconnected from the consumer unit.

The CLIVEWAY is very simple in concept. It is a small box containing a change-over industrial contactor rated above 650 volts, and a 13A socket with a built in RCD. It has two cables, each with a 1A mains plug fitted. To install the CLIVEWAY you simply plug the new 13A plug into the socket on the CLIVEWAY. You put the CLIVEWAY plug marked “Mains In” into the new kettle-type socket. The remaining longer cable with a 13A plug on the end is marked “Inverter” and is plugged into the inverter you are using. Bear in mind that the maximum Watts that the vehicle's circuit breaker and wiring is rated at a maximum of 10A and so appliances that use in excess of 2,400 Watts should be avoided.

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DC SIDE

The DC input of an inverter (except for ones with an output of less than 150W) must be connected directly to the leisure battery and it's essential to use appropriate cable and a fuse. If the inverter comes with a remote-control, then fit this in a convenient place. When the inverter is turned ON the CLIVEWAY contactor automatically connects all your sockets to the inverter with a satisfying clunk: "Safe as Houses" protection is provided by that RCD socket. You may just hear a faint hum from the contactor. Make sure you switch on the 13A socket and press the RESET button on the CLIVEWAY when you install it. When you go to bed that faint hum may just remind you to turn off the inverter you used earlier!

The CLIVEWAY is made in the UK and is distributed by RoadPro.

<https://www.roadpro.co.uk/product/02i-inverters/clive-way-priority-switch-with-r-cd-c7679a/C7679A>

