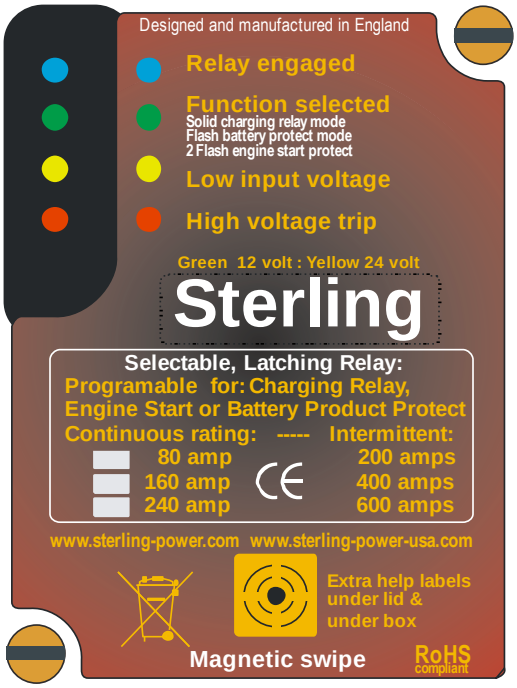
ProLatch R – Latching Relays

AQUANAUTIC
Water proof range

WATERPROOF and SALTWATER TESTED IP68



New latching design

The **ProLatch R** latching relay locks into position, thus, no matter if the circuit is 'on' or 'off' the locking device is engaged (latched). This is beneficial as it consumes no power to hold that locked position.

Approx. 1000 x more energy efficient

A conventional relay consumes about 0.45 A, which appears negligible when being sourced by a 70 A alternator, however, if the source is a solar cell on an overcast day then the current would be 0.4 A, rendering the solar cell useless. 1 x 0.45A relay can consume **75.6A** per week in comparison to 1 x **ProLatch R** which consumes **0.084A** approximately 1000 x more energy efficient. The use of 2 / 3 / 4 relays on larger installations would increase the magnitude of efficiency (respectively). This addition further highlights the need for the **ProLatch R.**

Remote control (optional)

Features:

1) Input voltage
2) Output voltage
3) Waterproof display, encapsulated electronics
4) Manual battery isolation
5) Sleep over ride for information
6) Information scroll option
7) Back light option
8) Little power consumption when on sleep
9) Relay circuit closed indicator
10) 1 min over ride to allow lights to be switched on for safety

Features:

1) **Charging mode (voltage sensitive relay)** – when the engine is off, the **ProLatch R** is in a league of its own when charging the batteries from solar cells or wind charging systems. There is no limit to how many battery banks that can be charged simply use the appropriate number of **ProLatch R** relays. An instant starter disengage circuit is a built in device to prevent the high surge of the starter motor damaging the relay.
2) **Battery protection mode –** protects a battery bank from premature and expensive destruction from deep discharge or over charging. During protection mode the relay disconnects the batteries at a preset limit and prompts a warning signal to the users to allow the completion of an operation but shall not allow the battery bank to deplete any further.
3) **Engine start protection mode –** allows appliances to be safely run from an engine starter battery whilst retaining enough power to ensure engine start up