

Provisional spec sheet for new large replacement switch panel range for Westerly yachts.

A range of replacement panels for the larger Westerly yachts. They can be customised to suit particular yacht requirements, around a basic design specification.

Panels are reverse engraved, providing specification, while maintaining a smooth front, and windows for LED indicators.

Navigation lights have 8 switches and circuit breakers that can be customised from a particular installation. Switches can be interlocked to ensure that incorrect light combinations are not shown. Boat mimic shows lights that are switched on, not that bulb is working. Battery status and split charge system are integrated, and a choice of installations are available, including bow battery installation see page 2. Water tank level is displayed on the ammeter bar-graph.

The panel as standard is supplied with 24 switches and circuit breakers, legends can be to customer requirement list.

The panels are pre-wired, out-putting to a multiple plug and socket connector, see page 3.

AC optional panel is available, with RCD and 4 outputs, with option for manual / automatic supply selection, plus voltage and current monitoring.

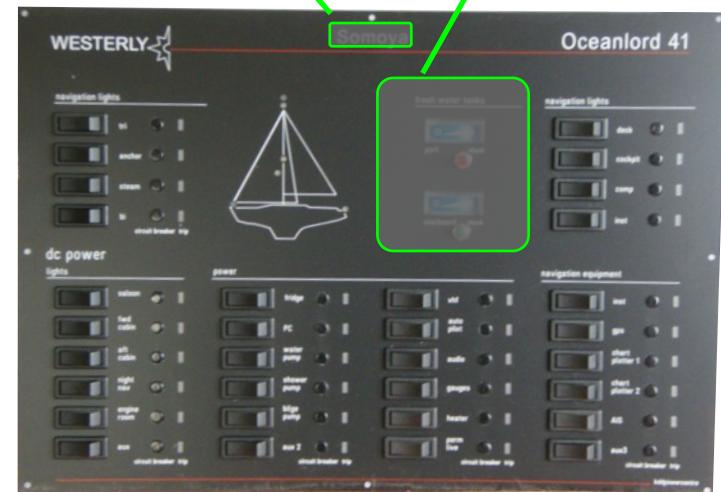
switching and circuit breakers

Each circuit has a switch and circuit breaker, with a reset button that is normally flush, if the circuit breaker trips, the button pops out. The green warning light indicator power 'on' will turn red, providing trip indication in low light conditions. Pressing reset button will restore power, and the light will return to green.

Switch legends can be customised to suit individual requirements, and are reverse engraved, maintaining a smooth face.

boat name here

battery status and fresh water tank level display options are located in this area



size 418 mm x 290 mm

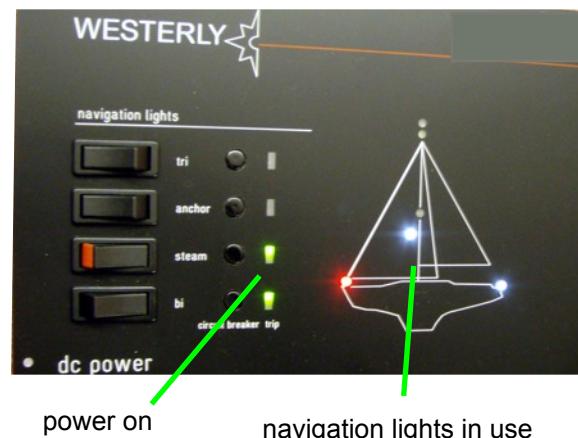
circuit breaker trip red

switch and legend

switch on indicator

power on green

circuit breaker reset button



Navigation lights boat mimic

The navigation light section allows for 8 switched outputs with circuit breaker. Operation can be monitored via green power 'on' LED, and boat mimic which indicates power to circuit, it does not indicate a bulb failure. If a circuit breaker trips, the green LED will change to red, the LED on the boat mimic will go out, and reset button pops out.

Switches feature interlocking to avoid incorrect light combinations being shown.

Switch legend can be altered to allow customisation to suit a particular yacht.

Basic options covering split charge to batteries, battery, and fresh water tank monitoring.

engine and service battery

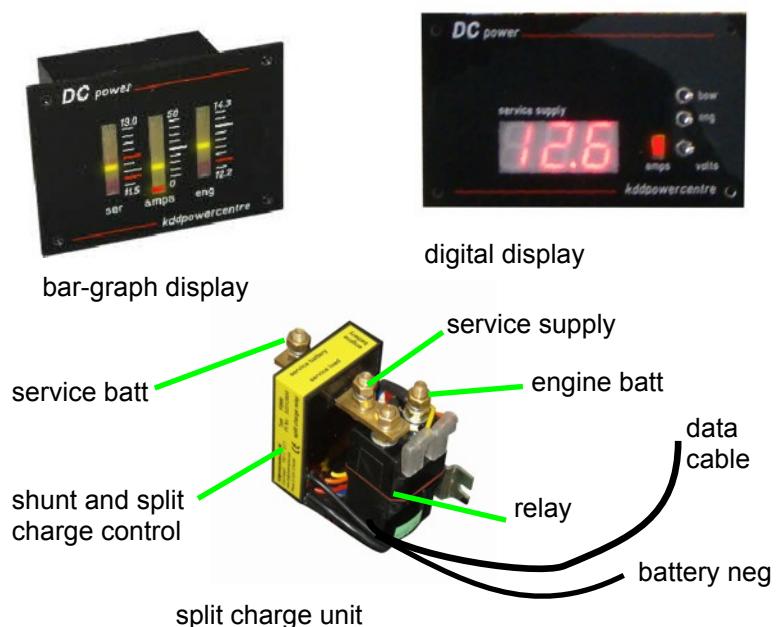
Integrated split charge and battery monitoring system featuring :-

bar-graph display, providing battery capacity guide, a constant readout of both service battery volts and net amps plus engine battery volts, and high volt alarm. In addition fresh water tank levels can be displayed on the ammeter bar-graph scale.

digital display, provides a constant display of either service battery net amps, or volts,. A LED provides constant indication charge or discharge for service battery. It also allows a check engine battery voltage.

display connection, is just a 4 core data cable from the split charge relay to the display module. This provides all voltage and amperage data for both batteries.

split battery charge, via a voltage sensed relay system, first developed by Kdd back in 1980. It offers simple installation, zero volt drop, bi-direction sense / charge, emergency link start,



engine, service and bow battery

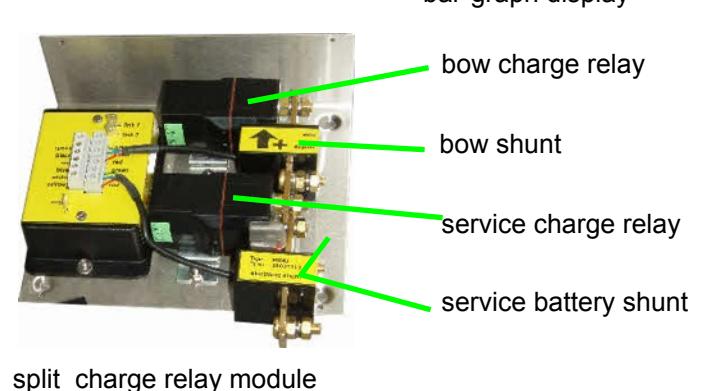
Uses the same basic system as the twin battery system, but allows for a battery fitted for powering winch, etc.

bar-graph display provides status of all 3 battery banks, 3 x volts, plus 2 x amps

digital display provides addition checks for bow battery volts and charge amps.

combined digital / bar-graph display allows constant monitoring of all batteries via bar-graph, and detail check via digital read-out.

split charge provides programmed charge cycle, providing charge priority to batteries with all voltage levels adjustable. All in one pre-assembled module, with a 6 core data cable connection to the selected display option.

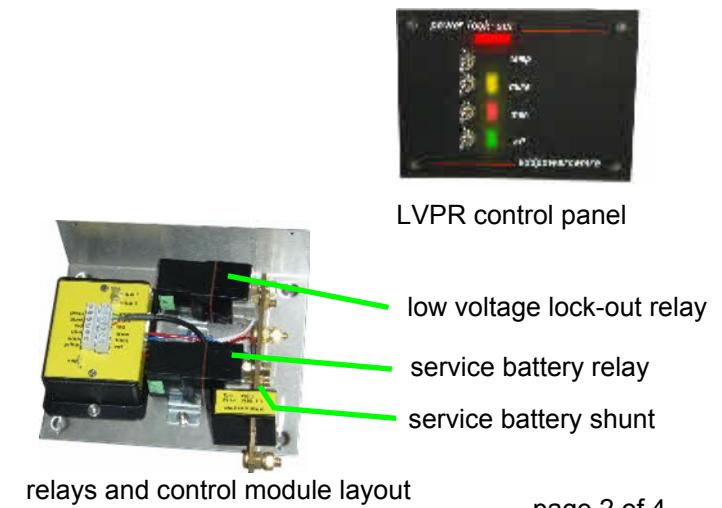


low battery voltage power reserve 2 bank split charge and monitoring

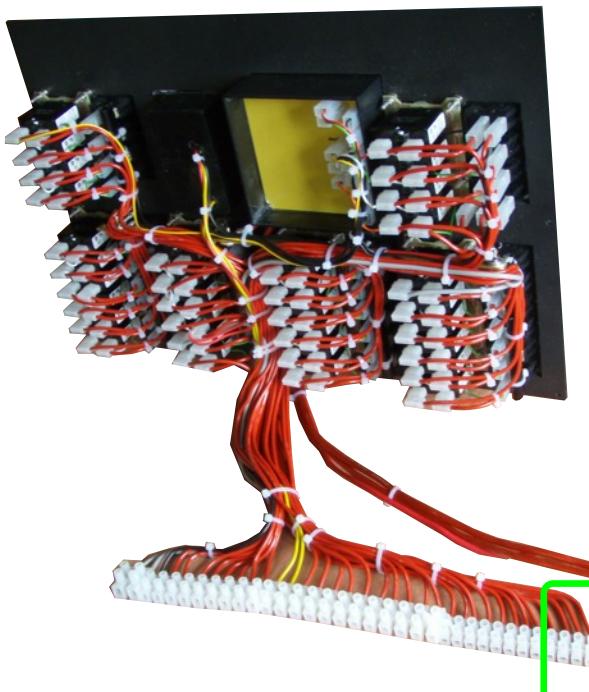
Low service battery voltage protection can be included for both two or three battery installations. **providing isolation** of high current equipment such as inverters, or it can be connected into the switch panel feed to isolate non critical equipment. This provides a reserve to power critical circuits, plus by limiting excessive low battery levels, increases battery life.

control panel provides, power lock-out audio alarm mute, a 4 minute emergency lock-out over-ride, manual system engagement, or manual system over-ride.

connection to LVPR control panel at the display area on switch panel is via a 4 core data cable



switch panel installation



The switch panel comes fully wire.

power output, terminates in a series of connectors, fitted with female terminals.

power in, depend on the specification, whether it has a section for permanent live power supply, if low battery voltage protection is fitted, but are flying leads to terminate in a suitable terminal fitted to bulkhead.

display, modules are fitted with multi-war screw clamp connectors, colour coded to match data cable.

cable installation

The terminal blocks with the male pins are screwed to the bulkhead behind the switch panel location, with printed legend sheet behind. The boat wiring is then run to the connector blocks as per the legend sheet. Allowing cables to be clipped to bulkhead, so avoiding the normal tangle of cables found behind switch panels.

Once completed, the switch panel connector plugs into male connectors on the bulkhead. Fit suitable screws though switch panel connector and screw into bulkhead to complete installation.

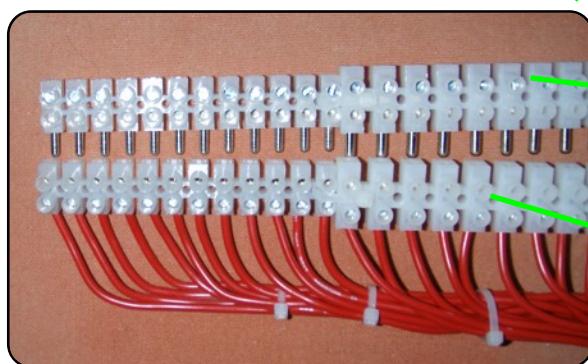


Cables from switch panel to female sockets



boat wiring to male half of the connector

connect to boat wiring



connect feeds to equipment fitted to boat

cable assembly from switch panel

230 volt AC switch panel

The AC panel provides a basic power supply with a number of options that can be added. The basic system offers RCD plus 4 switched outputs with illuminated switches, these indicate switch on. The circuit breakers have visual trip indicator light, and pop out reset button. Three warning lights provide indication that power is available to switch panel, power is turned on, and supply reverse polarity warning. All the 230 volt AC equipment is housed in a enclosure for safety against accidental contact.

Options

multiple supplies are available, such as mains or inverter, manual or automatic selection can be fitted. This covers two or three supply sources.

additional outputs, circuits can be supplied, increasing outputs to 8 circuits.

monitoring, can be supplied providing both supply volts and load amps. This can be bar-graph or digital, or a combination of both.

Connections are all within the enclosure, cable entry holes will be required, these should be made to suit cable installation.

input via 3 pin eyelet connector .

live output is via 1/4" spade terminals on the back of the circuit breakers.

neutral output via common block

earth output via common block

warning lights for ... power to boat, power on, and reverse polarity

