

MODULAR

Power System

SARGENT
wired for innovation



Compact
Flexible
Powerful



MODULAR
BY DESIGN

SARGENT
wired for innovation

Sargent Electrical Services Limited,
Unit 39, Tokenspire Business Park,
Beverley, HU17 0TB, United Kingdom
Phone: +44 (0)1482 881655 Fax: +44 (0)1482 678987
Tech Support: +44(0)1482 678981
Email: support@sargentltd.co.uk
Web: www.sargentltd.co.uk

CAT028

*Intuitive touchscreen control with
modular plug & play accessories*



Modular System

The main building blocks of the power system

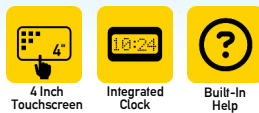
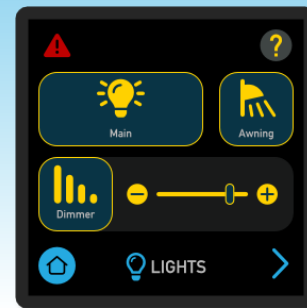
PLUG & PLAY COLOUR TOUCHSCREEN Solar CHARGER LCD CANBUS COMMUNICATION Water Level Temperature Sensor Humidity LITHIUM BATTERY

Touchscreen Displays



EC940 4" Control Panel

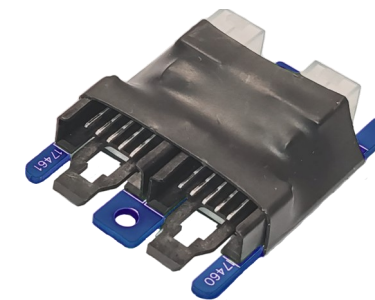
The EC940 control panel provides intuitive touchscreen controls for monitoring and control of lighting, power, water and environment sensors. It can also control optional accessories such as lithium batteries, solar regulator and ultrasonic water sensors.



CAN Bus Expanders

To provide more CAN Bus connection points, expander PCB's are available

17461 2-Way CAN Expander

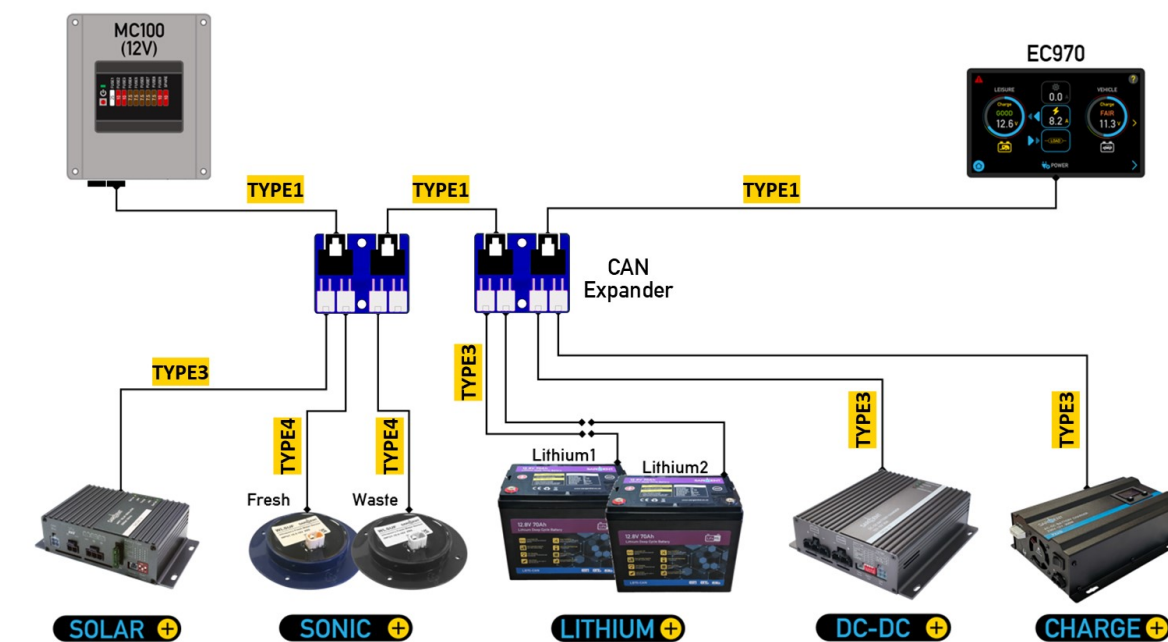


17830 4-Way CAN Expander



Example Installation

Example modular system showing how accessories can be connected using CAN expander and cables

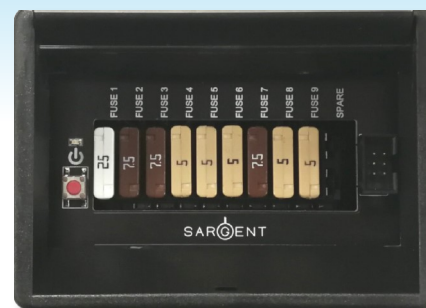


Control Unit



MC100 Modular Control Unit

The MC100 is the hub of the system, providing power, switching and monitoring for 12 volt equipment such as heating, lighting and water systems. It also provides protective fusing for all 12 volt circuits, including blown fuse indicators.



For further information and ordering, scan the QR code







Cables & Connectors

All parts required to get connected

PLUG & PLAY COLOUR TOUCHSCREEN Solar CHARGER Water Level Temperature Sensor Humidity LCD CANBUS COMMUNICATION LITHIUM BATTERY

CAN Bus Cables

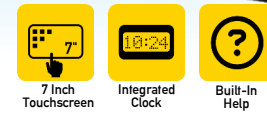
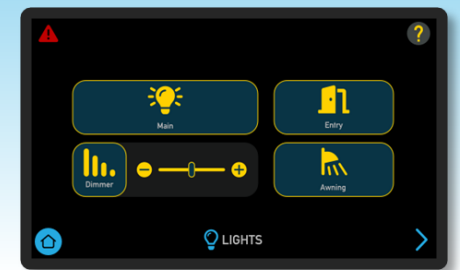
Various cables are available for connecting the CAN Bus communication from each accessory back to the Modular Control Unit. Select the required type and length from the following table.

Cable Type	Length (metres)	Part No
Lumberg > Lumberg 	TYPE 1	2 50100-24B
	4 50100-24D	
	6 50100-24F	
Lumberg > Mini-fit 	TYPE 2	2 50101-24B
	4 50101-24D	
	6 50101-24F	
Mini-fit > Mini-fit 	TYPE 3	2 50102-24B
	4 50102-24D	
	6 50102-24F	
Mini-fit > JST 	TYPE 4	2 50103-24B
	4 50103-24D	
	6 50103-24F	



EC970 7" Control Panel

The EC970 has all features of the EC940 but in a larger format screen for displaying more information. It is also compatible with additional accessories such as AC-DC & DC-DC chargers and Webasto heating systems.

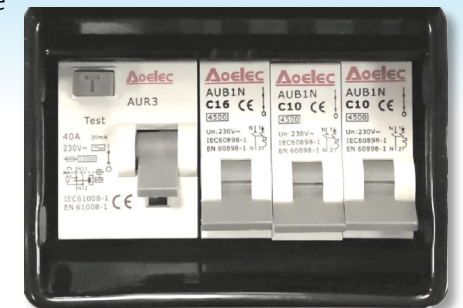


Mains Protection



MC200 Modular Consumer Unit

The MC200 provides an RCD for earth leakage protection and MCBs for overcurrent protection of the mains supply. The unit also provides switching for the water heater and battery charger along with a reverse polarity indicator.



CAN Bus communication allows the system to be easily expanded



Accessories

Additional parts for upgrading the system

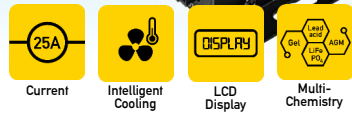
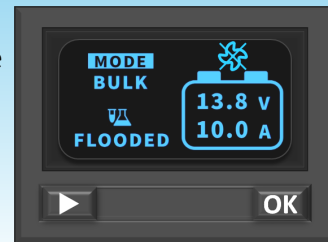
PLUG & PLAY COLOUR TOUCHSCREEN Solar CHARGER Water Level Temperature Sensor Humidity LCD CANBUS COMMUNICATION LITHIUM BATTERY

Mains Charger



PX310-KIT 20A 3-Stage Charger

Provides up to 20amp charging for most battery types including lithium. Charging status such as voltage and current is shown on the integrated display. The PSU mode allows the charger to be used without a battery fitted. A silent mode allows the cooling fan to be disabled during night charging.



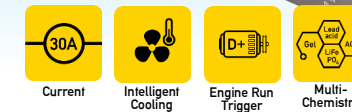
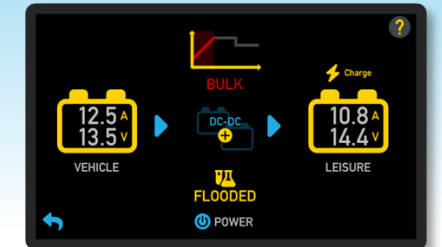
DC-DC Charger

DC-DC +



DXC30-KIT 30A 3-Stage DC-DC Charger

Provides up to 30amp multi-stage charging to the leisure battery during driving, ensuring the battery is more fully charged than using a traditional relay system. Compatible with smart alternators and most battery types including lithium.



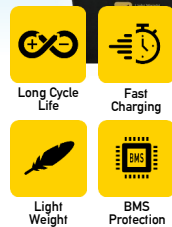
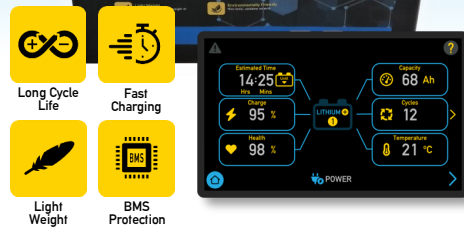
Lithium Deep Cycle Battery

LITHIUM +



LB70C 70Ah Battery LB100C 100Ah Battery

Our lithium batteries provide significant advantages over lead acid including reduced weight, longer life, a more useable capacity and faster charging. All data can be displayed on the control panel, allowing efficient power management.



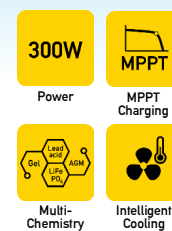
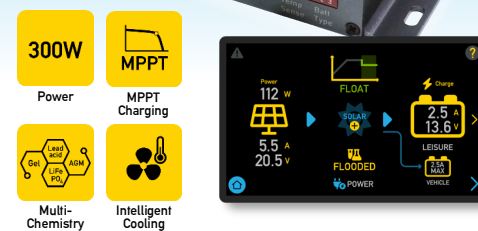
Solar Charger

SOLAR +



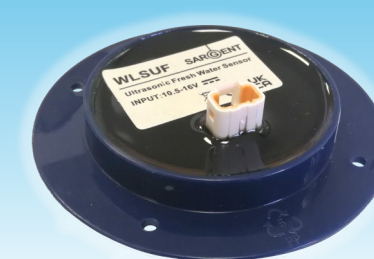
SXC300-KIT2 300W 3-Stage Solar Charger

This solar charger uses MPPT technology to extract up to 30% more energy from a solar panel than standard regulators. A second channel is able to trickle charge the vehicle battery to avoid starting problems.



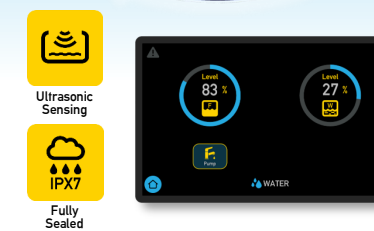
Ultrasonic Water Sensor

SONIC +



WLSUF Fresh Sensor WLSUW Waste Sensor

These sensors allow monitoring of fluid levels in fresh or waste water tanks. Contactless measurement improves accuracy and reduces the need for sensor cleaning. The units can easily be calibrated to suit different depths of tank.



All accessory information can be displayed on the control panel screen

