Integrated Solar Power System for Shipping and Offshore Applications

A marine solar power solution from EMP does more than just collect solar energy and are integrated systems that include a marine computer network, battery chargers, energy storage plus connections to other equipment and sensors. These solutions can be used on a wide variety of ships including passenger ferries, cruise ships, bulk ore carriers and offshore support vessels.

Marine Solar Power Products and Services

In co-operation with our strategic and technical partners Eco Marine Power can supply globally a range of marine solar power products and services for ships and marine use including:

- Integrated solar power systems for ships with Aquarius MAS and battery pack.
- Flexible marine grade solar panels designed for use on ships and other vessels.
- Solar panel accessories.
- Maximum Point Power Tracking (MPPT) charge controllers.
- Marine batteries, battery packs and energy storage solutions.
- Solar power system & electrical system design. (including wiring diagrams)
- Installation support including on-site installation supervision.
- On-site technical support.
- System design support and consulting services.
Marine Solar Power System Packages

Aquarius Marine Solar Power

This is basically a stand-alone solar power system which is not connected with other shipboard systems but provides a DC output which can be connected to a DC load or via an inverter to an AC load.

The main components in this solution include:

- KEI 3240 CPU/AGU - for smaller solutions this is optional
- 10.4 inch LCD Colour Touch-screen Display - for smaller solutions this is optional
- Flexible Marine Grade Solar Panels - range of panel types are available.
- MPPT Charge Controllers - 60A and 80A options available.
- Batteries or Battery Pack - from 12V to 60VDC.

Aquarius MAS + Solar

This includes all the elements of the Aquarius Marine Solar Power solution plus additional hardware and interfaces to fuel flowmeters, GPS and other equipment on a ship. This allows the system to monitor fuel consumption, calculate emissions, monitor main engine revolutions, generator output plus connect to a range of other equipment. It can also be expanded to include any of the KEI 3240 Data Logger functions.

The main components include:

- KEI 3240 CPU/AGU - additional CPU, AGU or combined CPU/AGU available.
- 10.4 inch LCD Colour Touch-screen Display - larger display sizes available.
- Flexible Marine Grade Solar Panels - range of panel types are available.
- MPPT Charge Controllers - 60A and 80A options available.
- Batteries or Battery Pack - 12V to 60VDC.
- Integrated Link System - interfaces for various input and outputs.
- Ethernet Hub(s) & RS-232 Converter(s)

Options: KEI Trackey, Larger LCD Screen, Redundant Configuration & Printer.