

# Industrial Grade Solar Power Systems



Offshore Gulf of Mexico.



Top View of Array Structure.



Heavy Duty Interconnection between solar  
modules.

Use of solar (photovoltaic) systems to power aids to navigation and obstruction lights is now common practice. Automatic Power pioneered solar powered aids to navigation with installations in the Gulf of Mexico in the late 1960s. Having installed over 20,000 solar power systems, these systems have been proven to be more reliable, more cost effective and easier to maintain than conventional power sources.

Pharos Marine/Automatic Power is drawing on its many years of experience to provide the solar power system for entire platforms. System components include a solar array of one or more modules, a battery (to store sun generated energy until required), power conditioning devices to prevent overcharging of the battery and loss of power through the array at nighttime, power distribution equipment, batteries and battery housings. These devices must compliment each other for maximum reliability and economy in the intended application.

Proper selection of components must be accompanied by system sizing experience. Our computer programs match array and battery requirements to power a given load virtually anywhere on earth. Our array structures are custom designed to customer's site conditions. Many customers choose to mount all the solar modules on one array structure but wire groups of modules to operate as independent power systems dedicated to a single system load.

**Platform Safety:** Systems may be designed to be fully compliant with NEC Class 1, Division 2 Hazardous Areas requirements or IEC Zone 1 or Zone 2 Hazardous Areas.

Automatic Power has the expertise to fully customize systems to met customer specific requirements and standup to the offshore environment. We've been doing it for many years.



Typical Battery Boxes.



Typical Battery Array.



Typical Switch Gear.

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