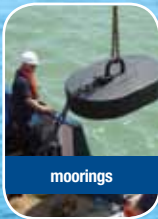


data buoy platforms



moorings



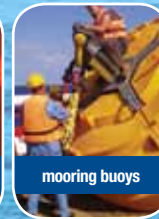
navigation buoys



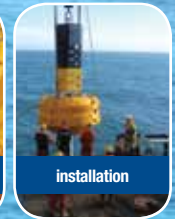
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navigation lights



mooring buoys



installation

the UK's leading supplier of aids to navigation

Hydrosphere solar power supplies

Hydrosphere provides a selection of self contained solar power supplies for use on buoys and onshore applications where an external power supply is required for lighting or other electrical equipment.

Five standard self contained models are available: the PS 314, PS 20, PS 55 and PS 95 manufactured by Mobilis, and the SP 50.

The PS 314 is a light, compact system containing 3 x 14W solar panels fitted to a rotationally moulded medium density polyethylene (MDPE) base. It is particularly suited for use on data buoy platforms as well as navigation buoys using 5NM range lights such as the Vega VLB-36.

The PS 20, PS 55 and PS 95 are a series of self contained solar power supplies offering a convenient, maintenance-free alternative to conventional solar installations. Each power supply is fitted with a single solar panel of either 20W, 55W or 95W mounted to a marine grade aluminium enclosure. They are suitable for onshore applications with navigation lights providing visible ranges of up to 8NM with low duty cycles, such as the Vega VLB-44.

The SP 50 is a complete solar power unit suitable for fixed locations. It has a 50W solar panel mounted on the front face with a regulator mounted inside the housing itself. The unit is designed to fit a navigation light but can equally be used for other systems or instrumentation such as tide gauges, security cameras and meteorological stations. Its unique design allows it to be opened in both directions making access a lot easier when mounted in a confined space, such as on a dolphin. The hinge assemblies can be fitted with padlocks for added security.

Hydrosphere also build custom solar power supplies for a full range of bespoke applications. [Please contact us for more details.](#)



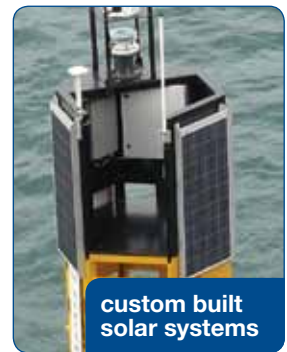
SP 50



PS 55



PS 314



custom built solar systems

features:

- Easily replaceable batteries for extended life
- Simple to install
- Suitable for buoys and fixed AtoN
- Compact, lightweight construction
- Onshore and offshore options
- Controlled enclosure ensures reliable operation
- Suitable for powering electrical equipment including LED lights, AIS, and data buoy electronics

power supplies

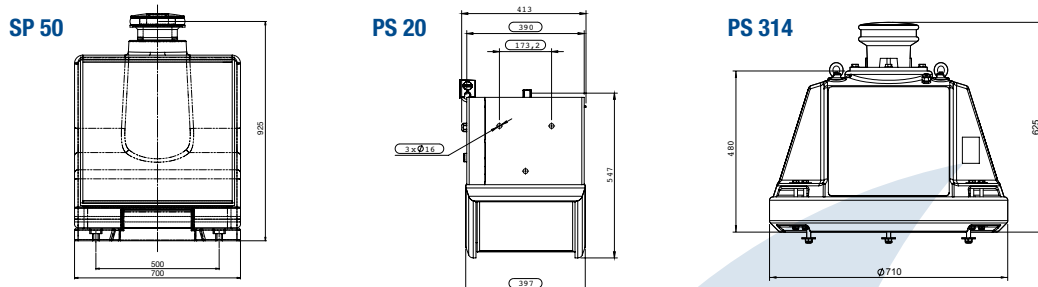
Hydrosphere solar power supplies

specifications and applications

	PS 314	PS 20*	PS 55*	PS 85*	SP 50
Application	Fixed AtoN	Fixed AtoN	Fixed AtoN	Fixed AtoN	Fixed AtoN
construction					
Central Structure	MDPE	Marine Grade Aluminium	Marine Grade Aluminium	Marine Grade Aluminium	MDPE
physical					
Height mm	480	575	1042	1241	845
Width mm	710 Ø	394	510	606	700
Overall Depth mm	710 Ø	530	730	752	580
Weight Kg (without battery or light)	17	40	65	75	20
Mounting	3 x 10mm holes on 550mm pcd	n/a	n/a	n/a	n/a
electrical					
Solar Panels W	3 x 14	20	55	95	50
Regulator	**Steca PRS	**Steca PRS 1010	**Steca PRS 1010	**Steca PRS 1010	6A
Battery Ah	2 x 100	24 x 240	24 x 240	24 x 240	1-3 x 100

*Measurements are given for vertical configurations of these solar panels. Please contact us for horizontal configuration measurements.

**No regulator required if using the Sabik LED 155 light.



the right power supply for the job

All standard solar power supplies included in this datasheet can be customised for bespoke applications. Please contact us and we will be happy to guide you on the right specification for your requirements.



hydrosphere

about Hydrosphere

Hydrosphere is the UK's leading supplier of aids to navigation and has been providing cost-effective solutions to the marine industry for more than 18 years. We offer a wide range of navigation and mooring buoys, LED navigation lights, sector lights, rotating beacons, leading lights, jetty masts, beach and zone marking products and associated moorings. Rental, installation and maintenance services are also available for all our products and systems.

For more information please contact us.

data buoy platforms | moorings | navigation buoys | navigation lights | mooring buoys | installation

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Compliant with all IALA recommendations.

