



Deepwater Power Point

TECHNOLOGY AND APPLICATION

WorleyParsons have developed a buoy which can be deployed in the ocean to support ocean observatories, or other subsea equipment with a large power load.

The buoys standard umbilical provides fibre optic and 240v to the seabed and telemetry to the shore. Data can be downloaded remotely from anywhere in the world.

Using in built PLC's, the buoy wakes at set times and starts a marine grade generator. The generator provides 120-240v at 4.8kW (continuous) to the seabed. The generator works to an angle of 45 degrees incline. An inbuilt velocimeter prevents it from starting in rough sea states.

SPECIFICATIONS

Ingress protection

- IP67 to the control system and power supply
- Self sealing air intake and exhaust for the generator - 1,000L/min in, 8,000L/min out

Umbilical support

- Prevent twisting of umbilical beyond 1deg/m e.g. via 3 or 4 point mooring
- Quick access to attach/detach the umbilical
- Release umbilical at attachment to buoy in the event of overloaded/ failure moorings.

Accessibility and maintenance

- Quick access to attach/detach the umbilical
- Access to fuel filler without having to board the buoy
- Grip surface for standing areas, and hand rails where required.
- Quick access to any regular maintenance work e.g. clean/flush sea water cooling system.
- All equipment removable from buoy in fewest steps e.g. removable sub-frame.



For more information contact:
Peter Mellor - Technology Manager
Mobile +61 421 151 814
peter.mellor@WorleyParsons.com