

Coastal Buoy

VPU500

SeaHow[®]
by Arctia



Navigation buoy with long life span

Coastal Buoy VPU500 is economically feasible navigation buoy. It provides durability and conspicuity that is equal to many steel buoys of similar size, but much more maintenance-free years.

VPU500 is deployed in conventional way by using sinker and slack chain. The movements of the buoy are calm even in high sea. This is because the buoy has excellent stability due to the high metacentric height (GM).

The storm and ice tolerance is superior compared to conventional shaped buoys. The slim body shape and semi-submerged structure exposes the buoy to less force caused by the waves or drifting ice.

The buoy can be equipped with any lantern in the market, self-contained or battery operated. Additional instrumentation and sensors of many kinds can be encapsulated inside the buoy body.



Area of use

Coastal and open sea
Ice covered sea areas
Smart Buoy solutions
Platform for various use

Specifications

*) can be adjusted according to customer needs

| | | | |
|----------------------------|----------------------|------------------------|-------------------------------------|
| Overall length *) | 7.4 m | Retro-reflector | 380 cm ² (3M diamond) |
| Diameter | 500 mm | Radar reflector | Trihedral TH500 |
| Draft *) | 4.8 m | Radar cross area | 20 m ² (X-band) |
| Wall thickness | 20 mm | Surface color | IALA-E108 |
| Polyethylene material | HD 100 extruded pipe | Color and UV stability | 26 years (lat. 50) on main surfaces |
| Polystyrene filling | EPS 150 closed shell | Mooring sinker weight | 4 - 6 ton |
| Dry weight without ballast | 350 kg | Maximum current | 2 kn |
| Required ballast weight *) | 260 kg | Maximum wave height | 4 m significant |
| Buoyancy at MSL | 610 kg | Lantern *) | Sabik as standard |
| Focal plane at MSL *) | 2.6 m | Battery capacity | 220 Ah |
| Nautical conspicuity | 3 NM | Top Mark | Optional |

We can customize the buoys for your needs

