

# Coastal Buoy

VPU500



## 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 <sup>2</sup> (3M diamond)
Diameter	500 mm	Radar reflector	Trihedral TH500
Draft *)	4.8 m	Radar cross area	20 m <sup>2</sup> (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

