



Service operation vessel T60-18

Main dimensions

Length overall	84.00m
Length betweenperpendiculars	71.70m
Breadth	18.00m
Depth main deck	7.50m
Design draught (moulded)	6.00m
Scantling draught (moulded)	6.25m

Deadweight

Deadweight at design draught	2,600t
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Speed

Maximum speed at design draught	12.5kn
Economic speed	10.0kn

Classification

DNV #1A, [Windfarm Service Vessel], E0, Battery(Power), Strengthened(DK, HA), COMF-C(2)V(2), BIS, Recyclable, BWM(T), NAUT(AW), CLEAN DESIGN, DYNPOS(AUTR), Crane, Walk2Work, ER(SCR), SPS

Regulations

National and international requirements as applicable.

Motion compensated gangway

One (1) motion compensated gangway positioned on centerline. Compliant with DNVGL-ST-0358. Suitable for environmental of waves with 3.5m Hs and 20 m/s wind. Cargo trolley loads up to 400kg. Stepless vertical adjustable operation between 20 and 25 above LAT. Operation from wheelhouse integrated cyber chair. One (1) pallet / passenger lift between main deck, A-deck and gangway access area. Maximum capacity is 2,000kg.

Boatlanding

One (1) height adjustable step-less boatlanding integrated in bow-shaped stern, suitable for daughter craft and CTV transfer

Cranes

<i>One (1) knuckleboom crane</i>	
Safe working load (3d motion comp)	5.0 t at 1.0 m Hs 2.0 t at 3.0 m Hs
Radius	26.0 m
<i>One (1) foldable knuckle boom crane</i>	
Safe working load	2.0 t
Radius	14.0 m

Warehouse

340 m² warehouse area with pallet-size shelving.
Transport by 2.0t pallet stackers. Humidity controlled stores. 20ft container hatch hydraulic operated and port side shell door for pallet transfer.

Tank capacities

Marine diesel oil	640m ³
Urea	40m ³
Fresh water	350m ³
Ballast water	1,350m ³

Endurance at sea

Approx. 30 days without port call.

Deck loads for local strength (typical)

Uniform load	5.00t/m ²
Deck A Workdeck	250m ²

Daughter craft (optional)

One (1) hydraulic operated davit	
Safe working load	11.0t
One (1) daughter craft	
Passengers	8-12 persons
Forward cargo deck capacity	1.5m
Speed	20+kn

DP system

- DP2
 - DP Capability Level 2: (9, 7, 8, 6)
 - Environmental Sensors
 - Three (3) DGPS
 - One (1) Laser based reference system
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Communications and navigational

- VSAT system
 - INMARSAT F
 - Radar System
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Zero emissions (optional)

The SOV can be fitted with zero emission propulsion:

Alt. 1: Fitted with total battery capacity of 23MWh for full electric operation and offshore charging facility. 2x990ekW generator sets as range extenders.

Alt. 2: Fitted with liquified hydrogen tanks and LT-PEM fuel cells with 14 day autonomy.

Power

Three (3) diesel generator sets	
Three (3) medium speed 1790 ekW at 900 rpm	
Total power installed	5370 ekW
One (1) emergency generator	
Maximum output	100 ekW
Engine Speed	1800 rpm
Battery system	
Two (2) 500 kWh batteries as spinning reserve	

Thrusters

Two (2) azimuth thruster	1530kW, each
One (1) bow tunnel thruster	900kW
Two (2) bow retractable thrusters	880kW, each

Lifesaving appliance

- Two (2) life rafts 25 persons each
 - Two (2) life rafts 35 persons each
 - One (1) M.O.B. boat
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Complement

Cabins persons:

- Crew (single): 20
- Clients (single): 40
- Total complement: 60

All cabins with own private facilities.

Optional: 60+ clients in single cabins

Facilities

- Two (2) four person client offices
 - Conference room (40 persons)
 - Messroom
 - Lounge and TV lounge
 - Gymnasium
 - Leisure room
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Helideck (optional)

CAP 437 compliant with 17m diameter.

Autonomous operation (optional)

Autonomous operation of SOV in the windfarm and decision support.
