



DATA SHEET

HYBRID SES

OVERVIEW

The Hybrid SES offers a step change in operational capability, performance and efficiency for a CTV operating in support of offshore wind farm O&M and construction activities. With a high crew transfer wave height capability, it presents a significant increase in operational days offshore, whilst the hybrid propulsion system results in significant reductions in fuel consumption and the associated CO₂ emissions. The highly innovative surface effect hull form and associated heave compensation, ensures a high degree of comfort for all passengers and crew.

KEY CAPABILITIES

Class	BV ⚙ HULL ● MACH Wind Farms Service Ship - S0, sea area 2 (2.5m Hs) ELECTRIC HYBRID (PM, ZE) MCA HS-OSC, Cat. 1
Hull material	Aluminium
Deckhouse material	Composite
Passengers	24
Crew	3

DIMENSIONS

Length overall	22m	Fwd deck space	30m ² max
Beam	8.9m		
Draft	0.5m on cushion/1.6m off cushion		

TANK CAPACITIES

Fuel	14,000L	Fresh water	400L
Black water	400L		

MACHINERY

Main engines	2 x Scania DI 16 076M @662kW
Propulsion	2 x RR Kamewa S50-3/CA
Gearbox manufacturer	ZF or Twin Disc
Electric generator/ motors	2x130kW
Electrical power bank	75kWh
Centrifugal lift fan	1 x 200kW

PERFORMANCE DATA

Max speed	33kts/38 kts (with 30min battery boost)		
Service speed	27kts	Deck strength	1,500kg/m ²
Fuel consumption per hour @ full speed	330L/hr	Max deck cargo	5Te
Fuel consumption per hour @ service speed	180L/hr		
Motion damping	Active pressure/airflow control of air cushion for heave damping Active transom interceptors for rolling damping and trim control		

INTERNAL EQUIPMENT

Accommodation Fully air-conditioned, personalised seating for passengers and crew. Galley area with microwave, fridge, hot water, and separate seating area. Changing area with lockers and shelving for technician bags

DECK EQUIPMENT

Fuel transfer Yes, up to 12m³ **HP washer** Yes

Crane Foundation and services to power the unit shall be prepared for later installation of a specific crane.

NAVIGATION/COMMUNICATION EQUIPMENT

Radar Two high speed radars one X-Band, 9Ghz and one broadband 4G radar

Electronic chart ECDIS

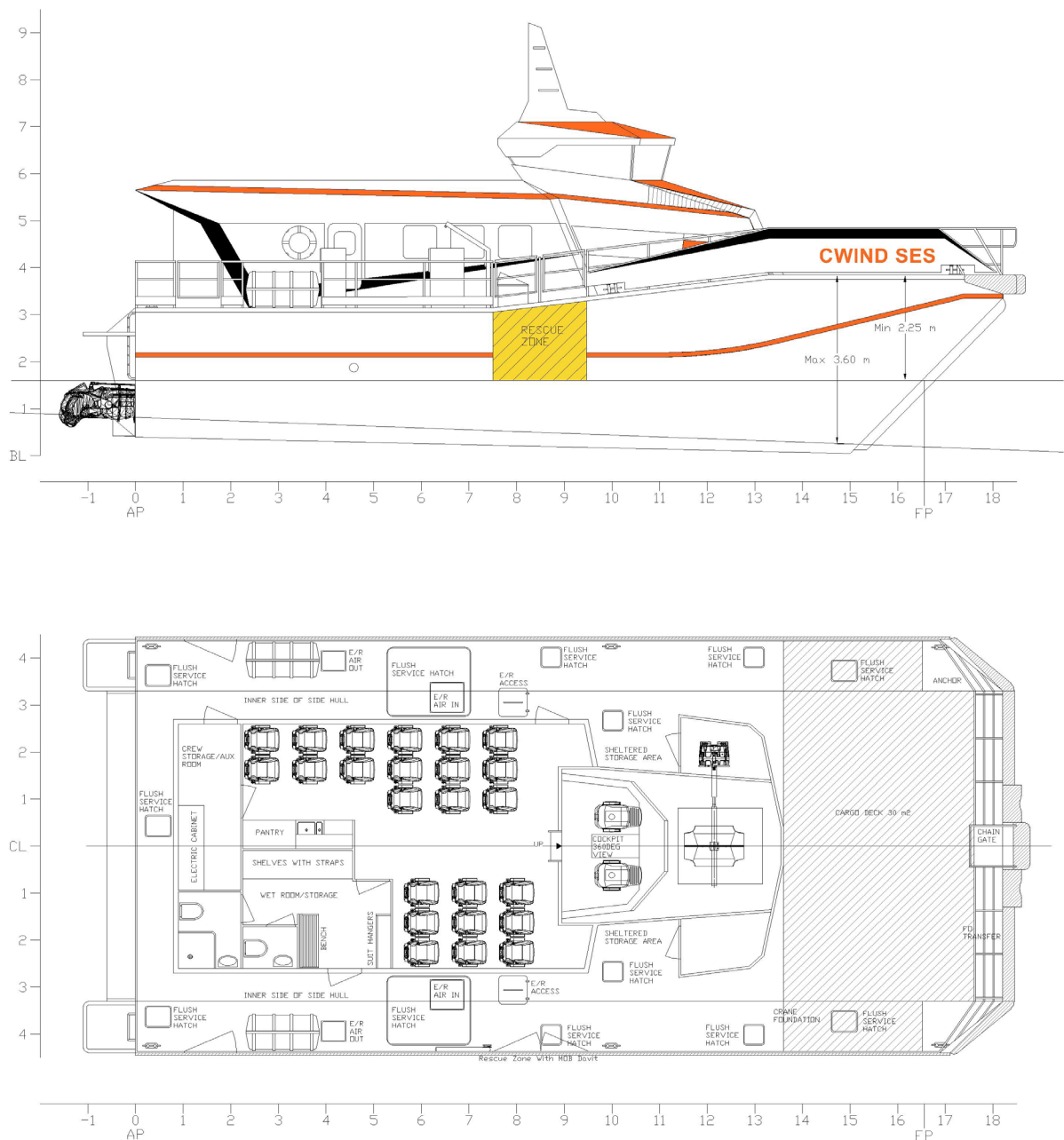
AIS Class A

Compass 1 x type approved magnetic compass
1 x gyro compass

Depth sounder Integrated with navigation system

Crew finder Rotheta

VHF 2 x VHF radio telephones, fixed with DSC and DSC Watch Receiver



Figures are indicative at time of publishing and are subject to change

For further information on CWind please visit:
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