



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
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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 @809kW		
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

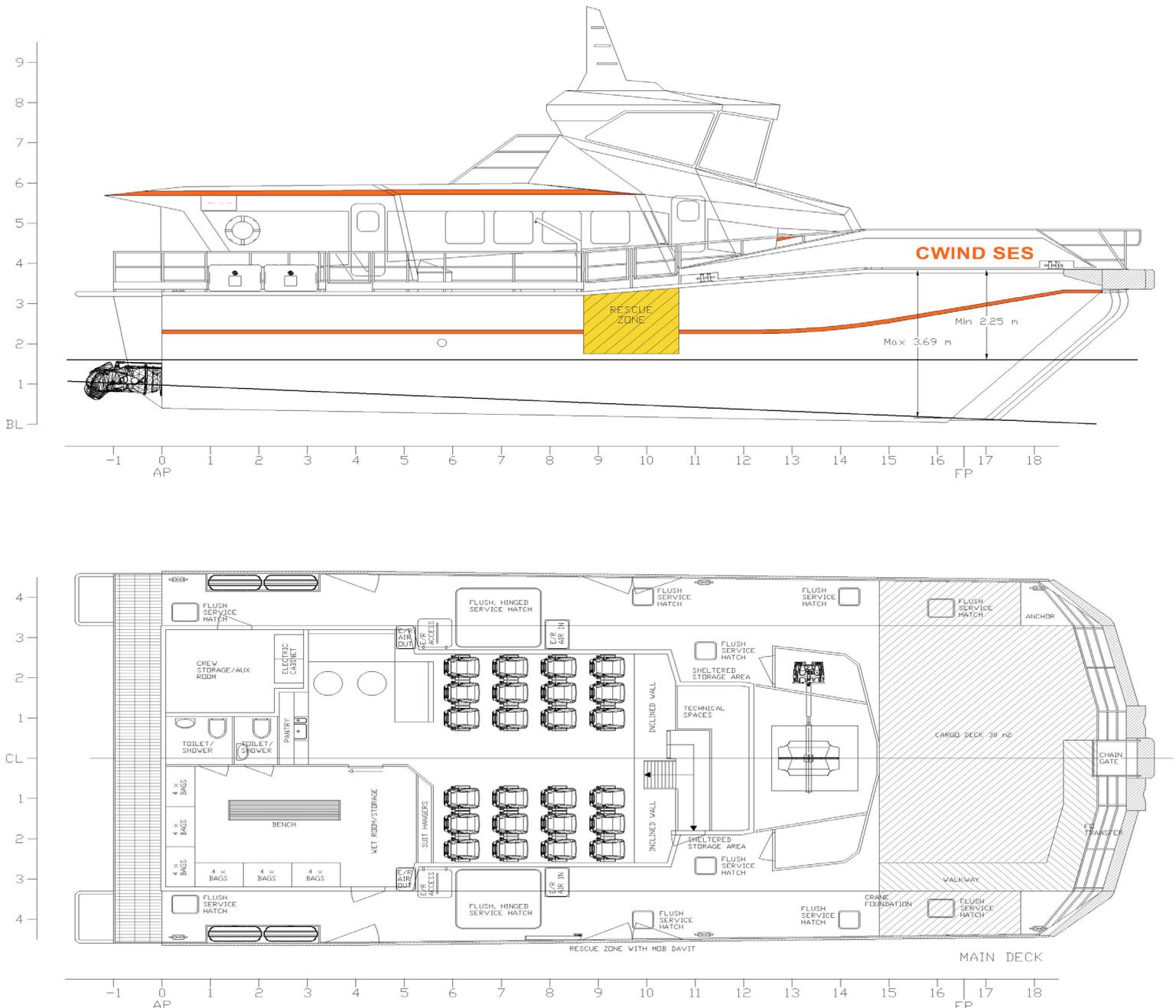
NAVIGATION/COMMUNICATION EQUIPMENT

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

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.



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

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