



SPARTAN 787

HYBRID MOTOR YACHTS



SPARTAN 787

VESSEL SPECIFICATIONS

A 24-metre hybrid expedition yacht engineered for range, silence, and self-sufficiency

Note: More vessel specifications will be added or updated as the design and review process progresses.

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Built by PT BBS Shipyard



SPARTAN 787

Crafted for Distance. Designed for Discovery.

The **Spartan 787** is more than a vessel — it's a statement of independence. A long-range cruiser capable of crossing the Pacific Ocean without having to refuel. A vessel capable of real world cruising powered by nothing but the Sun.

Every line and curve speaks of purpose: a sculpted 5083 marine-grade aluminium hull that glides through open oceans; a shallow 1.1m draft that draws it closer to hidden lagoons and remote anchorages; and a hybrid drive that carries it forward in near silence, leaving only ripples behind. Built to commercial standards with safety at its core, shaped for comfort over long passages, and engineered for efficiency and stability this vessel will inspire confidence to all those who step aboard.

Inside and out, the **Spartan 787** is built to explore, with all important systems being duplicated or having a backup, redundancy is a mantra at the BBS Shipyard allowing you to have peace of mind when you look towards the horizon.

Strength. Serenity. Self-sufficiency.
The **Spartan 787** is where they meet.

EXTERIOR DESIGN

Where Form Meets Freedom.

Elegant, confident, and unmistakably modern, the **Spartan 787** blends minimalist architecture with expedition purpose.

From its axe-bow, long waterline, and round-bilge hull deliver poise and efficiency, while seamless glazing flows unbroken from bow to stern, dissolving the boundary between sea, sky, and structure.

The aft deck is a genuine open-air living space — expansive, social, and practical:

- Deep wraparound lounge with convertible dining table/daybed

- Outdoor galley and BBQ beneath the extended roof line
- Ample storage for diving, fishing, and water-sport equipment
- Open deck area for morning workouts or evening Fishing
- Forward, the bow deck hosts a raised daybed, concealed storage, and sweeping horizon views — a quiet retreat for sunrise solitude or night-sky reflection.

Practical elegance defines every feature:

- The all Stainless Steel dual anchor winch and chain systems are raised and outward-tilted, allowing all runoff to flow clear of deck.

- Deck cleats are load-rated for crane lifts or haul-out operations, freeing you from reliance on travel-lift facilities and allowing haul-out wherever a crane is available.
- The roof integrates 20x 500 W solar panels carefully hidden from view with virtually zero shading allowing ultimate efficiency is solar energy harvesting.

These thoughtful, robust touches elevate everyday function into seamless simplicity.



INTERIOR DESIGN

Light. Space. Stillness.

Inside, the **Spartan 787** is a study in calm.

360° panoramic laminated glass, up to 23 mm thick, floods the pilot house, lounge, and galley with natural light, creating an effortless sense of openness and connection to the horizon.

The pilot house offers 2m plus headroom, superb visibility, and a natural flow into the lounge and expansive galley, where conversation and comfort move easily with the sea. The helm station provides unmatched 360° visibility and a full suite of modern electronics, with most systems duplicated for redundancy and reliability.

Below deck, three deluxe cabins offer restful privacy. A dedicated laundry and workshop ensure self-sufficiency for long-range living, while the balanced layout keeps the interior feeling open and serene.

Finishes pair endurance with elegance: genuine leather accents, exotic black-palm wood, and metallic detailing, softly illuminated by ambient LED lighting. Every texture is chosen to age gracefully; every surface is designed to be touched and lived with.

Refinement here is practical, enduring, and quietly confident — created for those who travel with intent.



Note: Concept renderings shown throughout. Final design may vary.

WHY SPARTAN

- True hybrid capability — silent cruising and intelligent energy management; a safer, more comfortable alternative to long-range sailing
- Commercial-grade engineering refined for live-aboard comfort
- Axe-bow + round-bilge form — efficient, stable, quiet, elegant
- Spacious outdoor living — dining, lounging, and workout zones that breathe
- Raised anchor system — clean deck, effortless drainage, and dual anchor systems ready for use
- Load-rated cleats & reinforced keel — ready for lift or beaching
- Three-cabin layout with dedicated workshop — fully customisable to owner preference.
- Filtered rain-catchment & watermaker systems — true off-grid autonomy

PERFORMANCE & SYSTEMS

Silent Power. Real Range.

Beneath its calm exterior lies a TRUE hybrid propulsion system combining a Yanmar 6CX BM-GT 400 HP commercial-rated diesel engine (non-electronic) and dual 20 kW axia-flux electric motors.

The entire 230kw, 1.7 ton lithium phosphate battery system operates at low-voltage 48V, ensuring safety and legally enabling owner-operators to maintain it with confidence.

This configuration provides regenerative charging, while under Diesel power and real world electric cruising. Capable of running 10 hours at 6.5 knots on a single charge.

As an alternative 'Quiet Mode' — or in the unlikely event of main-engine failure — the electric drives can be powered continuously by the 50 kVA super-silent diesel generator, or at lower speeds directly from the 10 kW solar array.



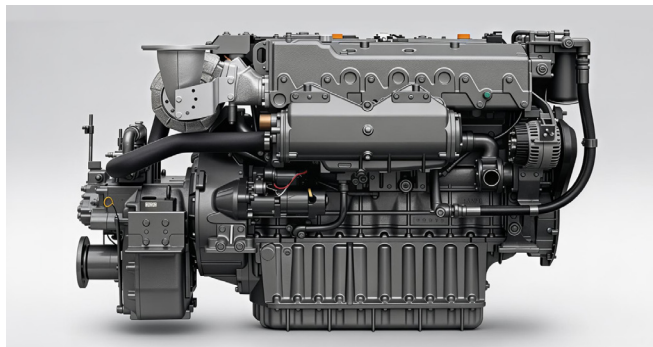
System	Detail
Battery Bank	~230 kWh/48 V LiFePO ₄
Solar Array	~10 kW (20 × 500 W panels)
Generator	50 kVA Marine Supersilent
Cruise Speed (diesel)	9 – 11 kn
Top Speed	~16 kn
Electric Mode	~7 kn for 10 + hrs
Range (diesel)	~9 000 NM @ 8 kn (10 % reserve)



WATER SYSTEMS & CATCHMENT

Pure water. Smart flow.

- **Fresh Water:** ≈ 2 850 L
- **Watermaker:** 240 L/hr (Australian Watermakers reverse osmosis)
- **Rain Harvest:** Roof-integrated system to fresh-water tanks with filtration manifold
- **Grey/Black Water:** ≈ 390 L
- **Engine & Generator Flush:** 150 L fresh-water circuit for machinery and engineering, prolonging heat-exchanger and cooling system life



ENGINEERING INTEGRITY

Strength. Simplicity. Reliability.

- **Builder:** P.T. Bahtera Bahari Shipyard (BBS), Batam — Indonesia
- **Hull Material:** Marine-grade 5083 aluminium (10 mm/8 mm/6 mm hull; 6 mm/5 mm superstructure)
- **Bilge System:** Internal hard-piped commercial network with manifold and cross-transfer redundancy, plus automatic electric pumps in all compartments
- **Fuel System:** 4 integrated tanks (~10 000 L total) including a 1 000 L day tank with polishing and high-speed transfer
- **Power Management:** Smart load distribution across propulsion and hotel systems
- **Fire & Safety:** Fixed engine-room system aerosol FSS + multi-zone alarms
- **Electrical Distribution:** Segregated AC/DC panels, clearly labelled for service
- **Stabilisers:** Fin + gyro — Z Gyro Z20 + CMC 25 Waveless electric fin stabilisers
- **Steering System:** Dual hydraulic ram with dual HyDrive pumps
- **Thrusters:** Bow QSB brushless 16 kW + stern QSB brushless 16 kW



DIMENSIONS & CAPACITIES

Specifications	Detail
Length Overall (LOA)	24.0 m (78 ft)
Beam (moulded)	5.3 m
Draft (full load)	1.1 m
Displacement	27 t/35 t/42 t (light/half/full)
Gross Tonnage	≈ 60 GT
Fuel Capacity	~10 000 L incl. 1 000 L day tank
Fresh Water	~2 850L + rain-catchment
Battery Capacity	~230 kWh/48 V LiFePO ₄
Solar Output	~10 kW
Range (diesel)	~9 000 NM @ 8 kn
Cruise/Top Speed (diesel)	9 – 11 kn/~16 kn
Cruise/Top Speed (electric)	5 – 8 kn/~8 kn

ENVIRONMENTAL SYSTEMS — BLUE THINKING

Go further. Leave less.

Hybrid propulsion, solar generation, and rain-catchment autonomy make the **Spartan 787** a vessel that travels far and treads lightly.

Here, efficiency isn't compromise — it's craftsmanship.

PHILOSOPHY

Built to explore beyond the horizon.

The **Spartan 787** isn't about indulgence — it's about living well at sea, with purpose and quiet capability.

Every inch is designed for those who seek connection: to the ocean, to the moment, to the quiet confidence of capability. Spartan isn't built merely to dazzle at dockside; it's built to explore beyond the horizon — steady, self-reliant, and beautifully composed.

The **Spartan 787** gives its owners the freedom to travel on their own terms — not only when the wind is right, but when the ocean is calm and the day invites exploration.

For those from a sailing background, Spartan represents the evolution of independence: day-hopping silently under solar power from anchorage to anchorage, without ever touching the battery supply.

Not just a vessel — Spartan is a companion in endurance, a protector in passage, a warrior you trust when the sea tests you.

SPARTAN 787

A 24-metre hybrid expedition yacht engineered for range, silence, and self-sufficiency.

Built to explore beyond the horizon.



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VESSEL SPECIFICATIONS

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PRINCIPAL PARTICULARS

Type:	Long-range alloy expedition yacht, diesel-electric hybrid
Hull material:	Marine-grade aluminium 5083
Length overall (LOA):	24.0m (78 ft)
Beam (moulded):	5.3m
Draft (full load):	1.1m
Air draft:	[TBC] m (to top of radar arch/highest fixed point)
Displacement (light/half/full):	27 t/35 t/42 t
Gross tonnage:	≈ 60 GT
Hull form:	Axe bow, fine entry, round-bilge
Classification/standard:	[TBC e.g., BV/RINA/ISO Small Craft]
Certification/flag:	Marshall Islands, Bikini.
Designers:	PT. BBS • Collaboration with Toby De Jong

CONSTRUCTION

Plating:	10 & 8 mm below WL • 6 mm sides • 5 mm main deck
Superstructure:	Aluminium with laminated toughened glass
Windows:	23 mm forward, 17 mm sides • Approx. glass mass ~1 t
Watertight subdivisions:	3x bulkheads with watertight doors to engine and battery rooms
Insulation & noise control:	Butyl, foam, and foil insulation system with fire-retardant properties.
Deck covering/non-skid:	Flexiteak
Paint system:	Alexseal marine paint system

PROPULSION & PERFORMANCE

Main engine:	Yanmar 6CX BM-GT, 400 hp (commercial rated)
Propulsor type:	Shaft line/gear/prop diameter & pitch 83mm shaft, 850mm 5 Blade Propeller
Hybrid drive:	2x 20 kW axia-flux electric motors (re-gen capable)
Generator:	50 kVA + 4kVA marine generators in stainless steel super silenced housing.
Solar array:	~10 kW (20 × 500 W)
Battery system:	~230 kWh, 48 V Tower lithium phosphate (approx. 1.7 t)
Max speed: ~16 kn (approx.)	~16 kn (approx.)
Hull speed:	~11.8 kn
Cruise speed (diesel):	9–11 kn
Electric mode:	10+ hours at ~7 kn (conditions dependent)
Fuel burn (diesel cruise):	~[1.3 — units TBC: L/NM or L/HR]
Generator-electric cruise:	~8 kn at <0.9 L/NM (approx.)
Range (diesel only):	~9,000 NM @ 8 kn with 10% reserve
Range (hybrid contribution):	TBC following sea trials
Noise/vibration targets:	TBC following sea trials
Exhaust & emissions:	[Tier 2 rating/after-treatment TBC]

CAPACITIES

Diesel fuel (total):	~10,000 L (in 4 hull-integrated tanks)
Day tank:	~1,000 L with polishing & transfer
Fresh water:	~2,850 L (1 tank)
Black/grey water:	390 L
Watermaker:	Make/model Water Makers Australia • L/hr 240
Machinery fluids:	Lube oil 100 L and waste oil 100 L
Rainwater harvest:	Roof-integrated to freshwater tanks via filter system.

ELECTRICAL SYSTEMS

DC primary:	48 V Tower lithium phosphate. 2x bank (~200 kWh) + (30kWh)
AC distribution:	Single phase 220 V
Inverters/chargers:	Victron Quattro 10,000w/140a x 7
Shore power:	220 V/50Hz/32Amps x2 • Victron Isolation transformer x2
Solar charge control:	Victron 45Amp 120v MPPT x 10
Emergency power:	4kVA generator backup

STABILISATION & HANDLING

Stabilisers:	CMC Waveless 25 Fin + Z gyro 20 1.3 Ton (both fitted)
Bow thruster:	Bow thruster: 15kw QSB 300 brushless
Stern thruster:	QSB 300 Brushless
Steering system:	Redundant dual Hydraulic systems
Windlass:	2x 4,000w 24v Tangren SS Capstan(s): top
Anchor & Chain:	Primary 65kg Vulcan Stainless Steel x 2 • Chain 12mm 150m stainless steel • Secondary 50m 12mm stainless steel
Tender & Engine:	4.2 m alloy RIB (Zhao Marine, Orca Hypalon) with radio, GPS, Simrad Evo3 9" fishfinder, stereo, safety gear, 60 HP Honda EPTT engine, four underwater lights, and removable daybed

NAVIGATION, COMMUNICATIONS & NIGHT OPERATIONS

Radars:	Dual Simrad 24m-20m Doppler radars
MFDs:	4x 18" 4K touch monitors at helm 2x 16" Simrad EVO 3's
Thermal/night vision:	Stabilised FLIR
Mast:	Telescopic pneumatic pole to ~4 m with 2x 1,200 W flood + spot and 360 camera
Charting/GNSS/Depth:	Simrad 3D sonar • transducer 2x SideScan 1x FWD sonar, 1x Chirp 1KW
AIS/EPIRB:	2x Simrad VHF-AIS
Comms:	VHF 2x Simrad 2x wireless handheld repeater • 2x Satcom Starlink
CCTV:	8x 4K AI-enabled PTZ cameras providing coverage of engine room, battery room, and exterior decks; integrated low-frequency theft deterrent system

SAFETY & COMPLIANCE

Bilge/fire:	220V electric hardline bilge manifold system, 4x Rule electric auto bilge pumps • Fixed fire suppression system aerosol x2 lithium fire extinguisher x2, powder fire extinguisher x4
Detectors:	Smoke/CO in accommodation & machinery
Lifesaving appliances:	Life raft(s) 10 pax/cert • Life jackets 10 • MOB 2
Emergency steering/lighting:	Tiller/24V lighting system
Fire-rated compartments:	Engine room, battery room
Regulatory:	ISO/CE/RCD/MCA/Flag Marshall Islands, Bikini.

HVAC & DOMESTIC

Air-conditioning:	Fully electric, off-grid capable: 4 x 2.5 kW and 1 x 4.2 kW systems
Heating:	Reverse cycle
Fresh-air forced:	868 CFM
Hot water:	80 L electric & engine recovery
Laundry:	LG 9KG Washer LG 9KG Dryer • Galley appliances: 690 L LG double-door fridge/freezer + 4 plate induction stove
Water treatment:	3x UV/filters
Black/grey management:	390 L

INTERIOR LAYOUT & ACCOMMODATION

Arrangement:	3 cabins • 3 showers • 4 toilets
Master (midships, full-beam beneath saloon):	Super-king bed, 100" TV, ensuite, dual hanging wardrobes, cabinetry and drawers, direct access to technical/battery room and engine room
VIP (forepeak):	Queen bed, 50" TV, ensuite, under-bed storage, dual hanging wardrobe, cabinetry and drawers
Mid cabin:	Queen bed, 50" TV, under-bed storage, hanging wardrobe, cabinetry and drawers, dedicated bathroom across hallway
Saloon/living area:	Full-length galley to starboard with full-size 4-door fridge/freezer, 2x sinks, 2x combi ovens, 2x built-in chest freezers, and cabinetry; 3 m U-shaped lounge with hi-low table converting to daybed and under-seat storage; forward passage seating for four with leather seats
Interior finishes:	A blend of timber, leather, fabric, carpet, and wood flooring
Heads/toilets:	Commercial JETS vacuum system with Jade wall-mounted unit
Laundry:	2x LG 15/8 kg combination washer/dryers with floor-to-ceiling cabinetry and storage

EXTERIOR & AFT WORKING DECK

Cockpit:	3 m U-shaped lounge with hi-low table converting to daybed; wet gear hanging closet; outdoor galley with BBQ/work burner, sink, and cabinetry; clear slide-in weather panels; watertight hatch to engine room
Stern /work deck:	Game-boat-style layout for dive and fishing operations, with 2 watertight hatches to lazarette
Dive systems/lazarette:	2x 100 LPM 220 V scuba compressors; stowage for 8 scuba tanks; rinse and gear stations
Swim platform & ladders:	3x cassette stainless steel swim ladders, 3x aft cockpit doors
Deck lighting:	12x Hella LED flood lights
Tender davits:	Dual 24 V davit winches with wired and wireless remote control, allowing independent operation

REDUNDANCY PHILOSOPHY

Critical systems duplicated:	Radars, autopilots, steering, navigation systems, pumps, anchor systems, and more
Independent navigation stacks:	3 discrete systems capable of standalone operation
Hybrid redundancy:	Electric motors provide get-home propulsion, supported by batteries, solar, and a 50 kVA diesel generator

OPTIONS & CUSTOMISATIONS

Tender package:	Customisable tender options including size, propulsion, and deck integration
Additional solar/battery:	Expanded solar array and battery capacity options for extended off-grid capability
Alternate interior schemes:	Choice of interior finishes, materials, and layout configurations
Alternate electronic packages:	Selectable navigation, communication, and monitoring systems to owner preference
Fishing towers/outriggers:	Optional sportfishing configurations including towers, outriggers, and deck setups

SPARES, TOOLS & DOCUMENTATION

Standard spares kit:	As specified per owner requirements
Tooling:	As specified per vessel configuration
Manuals & drawings supplied:	As-built plans • Wiring diagrams • Stability booklet
Training/hand-over:	Tailored to owner and crew requirements
<i>PLEASE NOTE:</i>	<i>Spares, tooling, documentation, and after-sales support are fully customizable, with tiered packages available to suit operational requirements. The vessel is engineered with inherent system redundancy, reducing reliance on extensive spare inventories.</i>

WARRANTY & AFTER-SALES

Hull & structure:	1 year/term
Machinery/electrical:	as per manufacturers warranty
Paint/windows/equipment:	as per manufacturers warranty

SERVICE NETWORK & CONTACT

Position:	Lead Designer and Project Manager
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Specifications and equipment brands are subject to change as design development progresses.

Purpose. Endurance. Honour.

Built for those who find freedom in distance and clarity in challenge, the Spartan 787 stands for resilience and resolve.

It's not simply engineered to cross oceans — it's crafted to stand beside those who do.

When the horizon calls, Spartan answers — steady, capable, and unwavering.