

ALPHA 42

Charter Version - "SAIL AWAY" Standard Specifications & Inventory

GENERAL CHARACTERISTICS:

Length (LOA):	42'1"
Beam (max):	23'10"
Draft (keel or daggerboard):	3'6" (NACA 00 section performance foil keel) 28" daggerboard up/ 6'8" down
Air draft (mast above water):	62' (US Intercoastal Waterway capable)
Displacement:	9.2 T
Sail area:	
- Self Tacking Solent Jib:	388 sqft
- Mainsail:	615 sqft
- Code-Zero on furler (optional)	
Engines:	(2) x 30 hp Yanmar 3YM diesel (40hp option)
Tank capacities:	
Freshwater:	approx. 225 US gallons total in (2) x 112 gallons long range tanks
Diesel:	approx. 125 US gallon long range tank
Naval Architect & Engineering:	Marc Anassis NA, Alpha-1 Composites
Concept & Interior Design:	Aeroyacht Ltd.
Builder:	Alpha 1 Composites, Patchogue, NY USA

The Alpha 42 is built to ABS (American Bureau of Shipping) recommendations

CONSTRUCTION:

Composite Structure:

Vynilester hybrid composite hulls and decks with closed cell foam core and Kevlar Matrix re-enforcements. Nydacore bulkheads and special cross drilled Divinycell foam sandwich core to provide insulation, rigidity and light weight. Monolithic bilges employing the [ALPHA KEVLAR MATRIX](#) backbone system for strength, resistance to impacts, perforations and beaching. Reinforced, solid-monolithic stratified hull underneath waterline and keel shoe housing performance foil keel or high performance daggerboard (option). Keel is completely sacrificial and in case of holing or grounding does not impact on watertight integrity of hull. All bulkheads use the ["STITCHED" BULKHEAD TECHNOLOGY](#) and are manually laminated to the hull to provide maximum structural rigidity. Rudders and skegs in Vynilester laminates, stocks in solid aluminum.

BRIDGEDECK-SALOON:

General:

Woodwork in Alpi exotic wood veneer
Interior salon / cabin soles: laminated Wenge- wood
Settee cushions in "off-white" color
Settee pillows in "grey" and "amber"

Pleated saloon curtains in "beige" color on rail
 Standing headroom (6'5-6'3")
 Cabin mattresses in 4" thick polyester foam

Salon:

Salon accessible through a sliding Plexiglas door (2 doors) in white aluminum frame
 Ventilation by 2 opening frontal hatches
 1 U-shaped settee couch and fixed table for 8 people
 3 large lockers under settee seats
 Lighting by 6 LED spotlights

Galley:

Galley opening onto cockpit
 Galley countertop in Corian (or similar), stainless sink
 1 trash bin with top access, bags removed through independent door
 Pressurized hot and cold freshwater from mixer faucet
 1 Force 10 - Perigord propane oven
 1 Force 10- Eno 3 burner propane stove top with potholders
 12V(4.6 cuft.) 130 liter Isotherm stainless steel refrigerator
 Large lower stowage locker under sink
 Lighting by 3 LED and one fluorescent light
 Ventilation by 1 opening hatch above stove top

Navigation station:

Chart table with carbon instrument fiber face
 Navigation seat with backrest and cushion
 Console for 12 V electrical panel and navigation instruments, including a stowage space inside the chart table
 1 x 12 V outlet

CHARTER VERSION

2 double cabins with 2 heads in port hull and 2 double cabins with 2 heads in starboard hull

PORT SIDE HULL

Double Cabin aft:

Access to double cabin via door
 Standing headroom (6'5-6'7")
 Queen Size double berth (60x81")
 4" comfort foam mattress
 2 large storage compartments under berth with frontal access locker plus access under mattress
 Hanging locker with interior shelves with joinery front
 Bookshelf alongside berth
 2 coat hooks
 Ventilation via 1 overhead hatch, 1 hull port light and 1 aft port light
 Large fixed hull port light window
 Removable composite window shade on fixed hull port light window
 General lighting by 1 LED spotlight and 2 berth side reading lights
 Fold down ladder to access deck via large overhead opening rear hatch

Bathroom aft:

Access through wood joinery door
 Standing headroom (6'5")
 Counter top with built-in washbasin and mirror
 Storage area behind mirror closet
 Manual marine toilet
 11 gal (45 litres) black water holding tank
 Bathroom accessories (toilet tissue holder + towel holder)
 Shower with electric drainage sump pump with strainer
 Ventilation via 1 deck hatch and 1 hull port light
 Large fixed hull port light window
 General lighting by 1 LED spotlights and one fluorescent light

Double Cabin forward:

Access to double cabin via door
 Standing headroom (6'5-6'7")
 Queen Size double berth (60x74")
 4" comfort foam mattress
 2 large storage compartments under berth with frontal access locker plus access under mattress
 Hanging locker with interior shelves with joinery front
 Bookshelf alongside berth
 2 coat hooks
 Ventilation via 1 overhead hatch, 1 hull port light and 1 aft port light
 Large fixed hull port light window
 Removable composite window shade on fixed hull port light window
 General lighting by 1 LED spotlight and 2 berth side reading lights

En Suite Bathroom:

Access through wood joinery door
 Standing headroom (6'5")
 Counter top with built-in washbasin and mirror
 Storage area behind mirror closet
 Manual marine toilet
 11 gal (45 litres) black water holding tank
 Bathroom accessories (toilet tissue holder + towel holder)
 Shower with electric drainage sump pump with strainer
 Ventilation via 1 deck hatch and 1 hull port light
 Large fixed hull port light window
 General lighting by 1 LED spotlights and one fluorescent light

Storage Forepeak:

Access via large deck hatch
 Standing headroom (6'2")
 Finished in gel coat

STARBOARD SIDE HULL

Double Cabin Aft:

Access to cabin via door
 Standing headroom (6'5-6'7")
 Queen Size double berth (60x74")
 2 single over under berths
 4" comfort foam mattress

2 large storage compartments under berth with frontal access locker plus access under mattress
 Hanging locker with interior shelves with joinery front
 Bookshelf alongside berth
 2 coat hooks
 Ventilation via 1 overhead hatch, 1 hull port light and 1 aft port light
 Large fixed hull port light window
 Removable composite window shade on fixed hull port light window
 General lighting by 1 LED spotlight and 2 berth side reading lights
 Fold down ladder to access deck via large overhead opening rear hatch

En Suite Bathroom:

Access through wood joinery door
 Standing headroom (6'5")
 Counter top with built-in washbasin and mirror
 Storage area behind mirror closet
 Manual marine toilet
 11 gal (45 litres) black water holding tank
 Bathroom accessories (toilet tissue holder + towel holder)
 Shower with electric drainage sump pump with strainer
 Ventilation via 1 deck hatch and 1 hull port light
 Large fixed hull port light window
 General lighting by 1 LED spotlights and one fluorescent light

Double Cabin Forward:

Access to double cabin via door
 Standing headroom (6'5-6'7")
 Queen Size double berth (60x74")
 4" comfort foam mattress
 2 large storage compartments under berth with frontal access locker plus access under mattress
 Hanging locker with interior shelves with joinery front
 Bookshelf alongside berth
 2 coat hooks
 Ventilation via 1 overhead hatch, 1 hull port light and 1 aft port light
 Large fixed hull port light window
 Removable composite window shade on fixed hull port light window
 General lighting by 1 LED spotlight and 2 berth side reading lights

En Suite Bathroom:

Access through wood joinery door
 Standing headroom (6'5")
 Counter top with built-in washbasin and mirror
 Storage area behind mirror closet
 Manual marine toilet
 11 gal (45 litres) black water holding tank
 Bathroom accessories (toilet tissue holder + towel holder)
 Shower with electric drainage sump pump with strainer
 Ventilation via 1 deck hatch and 1 hull port light
 Large fixed hull port light window
 General lighting by 1 LED spotlights and one fluorescent light

Forepeak:

Access via deck hatch
Standing headroom (6'3")
Ventilation via 1 large deck hatch and 1 hull port light
Finished in gel coat

DECK LAYOUT:

Helm station:

Ergonomic helm station allows a clear view of both bows
2 Engine controls,
1 compass with internal light
Panel for navigation electronics.
Fixed double helmsman's seat with backrest
12V outlet
2 built in cup holders

Cockpit:

8 person settee
1 fixed cockpit table
2 cockpit seat lockers
aft walkway/lounge platform

Foredeck:

Generous forward trampoline-cockpit with built in bench seat - teak trimmed
1 large chain locker
Propane cooking gas locker built-in to the forward locker

Engines:

2 x 30 hp Yanmar diesel engines with sail drives
2 blade fixed propellers
Raw water filter
Engine cooling by heat exchanger
Complete engine panel and dual controls at steering station
Engine access through GRP deck hatch
High-performance sound insulation
Lighting via fluorescent light

Fuel system:

(1) 125 gal (473 litres) pvc long range fuel tank with filler plate in cockpit seat
Electric fuel gauge (indicator on 12 Volt panel)
1 fuel pre-filter / water separator + 1 engine fuel filter
Fuel shutoff valve accessible in cockpit seat locker

Fresh Water System:

Total of 224gal in 2 polypropylene freshwater tanks of (2) x 112 US gallons with electric gauge
1 electric pump and pressure accumulator
1 water heater 8 gal (engine water jacket driven)

Bilge Pumps:

- 1 automatic electric bilge pump in each engine bilge compartment
- 1 automatic electric bilge pump in each center hull bilge compartment
- 1 manual exterior bilge pump with 15' hose

Black water system:

- 2 manual toilets
- Two 11 gal (45 litres) black water holding tanks
- overboard discharge deck fitting

Power system:

- 2 x 55A/12V engine alternators
- 1 bank of starboard house/engine batteries of 300Ah
- 1 port engine battery of 100Ah
- Emergency power crossover circuit with switch

110V Shore Power and Charging System:

- 110V shore power cable with circuit breaker
- battery charger
- Charge voltmeter at nav station

12V electrical distribution panel:

- General 12V distribution panel at chart table protected by labeled circuit breakers
- Charge voltmeter for house batteries at nav station
- Spare outlets for extra equipment

Electronics:

- 1 Garmin GPSMAP 720 (or similar) color chart plotter and depth finder mounted at helm station
- 1 navigation multidisplay Raymarine ST70 (or similar) at helm mounted at helm station
- 1 V.H.F. antenna on mast

Mast and boom:

- Mast and boom in anodized aluminum
- Complete stainless standing rigging (forestay and 2 side shrouds)
- Mainsail luff cars on low friction sliders
- 1 main halyard with leads halyard back to helm station clutch
- 1 topping lift with leads line back to helm station clutch
- 1 Self tacking Solent Jib halyard leads halyard back to helm station clutch
- 1 Spinnaker/Gennaker/Code-Zero leads halyard back to helm station clutch (option)
- 3 pre-fed leach reef lines with boom jammers lead back to helm station clutches
- 2 Lazy-jacks with clutches
- 2 flag halyards with cleats
- Masthead mounted LED navigation, steaming and anchor lights
- Mast mounted LED deck lighting

Sails:

- High quality Dacron full-batten mainsail (square top)
- High quality Dacron self tacking Solent Jib on furler

Mainsail and Self tacking Solent Jib:

Mainsheet leads mainsheet back to helm station
 Low friction mainsheet traveler along aft cockpit seat
 2 mainsheet traveler tackles with sheet clutches
 1 Self tacking Solent Jib track on coachroof
 1 Self tacking Solent Jib sheet lead to helm station clutch
 2 size 44ST self-tailing winches for Main and Solent Jib sheets

Mooring Equipment:

44 Lbs CQR anchor
 Anchor exit under bridgedeck with bridle included
 150' of anchor line with 30' 3/8" chain leader
 1 1000 Watt Lofrans electric windlass with cable remote
 7 mooring cleats (2 forward + 2 midships + 2 aft + 1 chain locker)
 4 x 30' dark blue dock lines

Steering System:

Manual steering system for maximum feedback with cables and leather trimmed wheel
 2 rudders mechanically linked by stock levers and transversal tube
 1 emergency tiller

Other equipment:

3 winch handles, 3 pockets
 Pulpits and pushpits, stanchions with upper and lower lifelines
 Lifeline openings at transoms
 Boat name and hailing port decals on aft beam
 Stainless steel handholds on transoms
 Teak trim transom step
 1 swim ladder
 1 anchor roller fitting on forward beam (for emergency anchor)
 Close mesh comfort trampoline net on forward beam
 6 fenders
 1 bucket
 2 flashlights
 1 offshore knife
 1 flare kit
 8 Coast Guard approved life jackets
 2 coats antifouling
 1 hot and cold water deck shower in starboard transom

NOTE:

All specifications and dimensions are given as a rough guide only. In an effort to improve the ALPHA 42 catamaran, Alpha 1 Composites may change specifications without notice.