

## GC65C

### DESIGN BRIEF

This 65' performance cruising cat is intended for 49 passenger day charter service, private charters, and long range cruising and extended live-aboard use by a couple, with occasional visitors onboard. Construction is modern composite using resin infusion, wet bagging and West System methods to create a durable light-weight vessel.

Accommodations are simple, taking advantage of a catamaran's tremendous volume without overloading it with complicated, heavy, and expensive joinery. Where possible, the yacht's structure doubles as interior joiner work. Outfitting is sensible, simple and in compliance with USCG regulations for charter vessels.



### SPECIFICATIONS

|                      |               |
|----------------------|---------------|
| Length               | 65'           |
| Beam                 | 30'           |
| Displacement         | 50,000 lbs    |
| Passengers           | 49            |
| Berths               | 8             |
| Sail Area            | 1,425 sq. ft. |
| Propulsion           | 2 x 170 hp    |
| Bridgedeck Clearance | 3' 3"         |

### FEATURES

#### CONSTRUCTION

Hulls, decks, bridgedecks, roof, cabin sides, windshield and seats built of Corecell foam, glass and CPD epoxy resin using resin infusion and vacuum-bag processes. All primary structural components and amenities built using West System construction methods

#### **Exterior Finish**

- Alexseal polyurethane paint systems
- Commercial yacht finish

#### **Interior Finish**

- Sherwin Williams Tile Clad

#### **Paint and Graphics**

- Snow White hulls, salon, mast, boom
- Choice of colors for topside stripe and bootstripe
- Choice of non-skid deck colors
- 2 Coats bottom paint, 3 on waterline
- 3" Name and hailing port on aft beam
- Hull markings as per USCG minimum requirements
- Purchaser to supply hull logo vinyl graphics

#### ACCOMMODATIONS IN THE HULLS

Port and starboard hulls are essentially mirrored arrangements (from fwd to aft)

## **Forepeak**

Stowage for sails or other light weight items provided in the forward section, accessed through watertight hatch on deck. Watertight "collision" bulkhead separates forepeak from accommodation areas aft.

## **Forward Cabin**

Doubled berth with stowage under. Bookshelf with small stowage bins located along outboard topsides, seat and hanging locker inboard. Lewmar 50 hatch overhead & opening portlight in topsides outboard.

## **Forward Head**

"Basic" yacht head, with toilet, sink basin, shower, counter with stowage bins, and mirror. Shower sump and holding tank under the sole. A small ventilation hatch is installed in the topsides under bridgedeck.

## **Amidships (Port Side)**

Inboard of the daggerboard case (there's only one) aft of the main beam, is a space for a yacht type washer dryer. Aft of the washer/dryer is a counter with stowage under and a linen locker above. Outboard, a seat/berth panel folds up to clear the passageway, with bookshelf/stowage bins above and aft. The ladder leading to the deckhouse removes to access a Lewmar 60 escape hatch on the inboard topsides. Two opening portlights are located in the outboard topsides.

## **Amidships (Stbd Side)**

Hanging locker, upper and lower berths provided for crew. Generator box under lower berth. Bookshelf/stowage bins located along outboard hull topsides. Companionway ladder leads up to deckhouse.

## **Aft Heads**

A large head compartment is located fwd and inboard. A separate shower/toilet compartment is enclosed with a sliding door panel. A small ventilation hatch is installed in the topsides under bridgedeck. The remainder of the head compartment has a sink installed in a counter cabinet with mirror and locker above.

## **Aft Cabins**

A large double berth extends across the aft portion of the cabin, with drawers and stowage bins under. Stowage is provided in a hanging locker,

seat, and bookshelf/stowage bin along the outboard hull side.

## **ENGINE ROOM**

Aft of the aft beam is an engine space, accessed through a deck hatch. This space is only devoted to the engine installation, with other mechanical items positioned further forward in the yacht.

## **DECKHOUSE**

The deckhouse has large fixed acrylic windows for a panoramic view, and two Lewmar 60 hatches overhead for both ventilation and light. The aft bulkhead has 2 doors (port and starboard) accessing the aft cockpit, and an access hatch forward to provide a safe passage forward.

A large U-shaped seating fills the forward starboard part of the deckhouse, with a large fixed dining table. Stowage space under the seats is accessed through lift out panels under the seat cushions. Tankage is built in between the seating and the mast crossbeam.

The galley is comprised of two counter/cabinet units on the port side of the deckhouse. The forward U-shaped cabinets contains the stove, 2-basin galley sink, smaller "bar sink" and stowage. The refrigeration cabinet is located against the aft deckhouse bulkhead. Starboard of the galley is the large navigation table facing the aft deckhouse bulkhead. Two swivel chairs provide secure seating for the navigator(s) or provide additional seating for socializing in the deckhouse. A large opening portlight/hatch through the aft bulkhead enables a direct link between the helmsman and navigator, and a clear view of the radar screen from the steering station. Navigation instruments share space with audio-video components above the navigation table. A wet locker is adjacent to the companionway leading up to the sailing cockpit.

## **DECK AND COCKPIT**

Trampolines are constructed of laced polyester line. A boarding ladder on centerline hinges down to provide a staircase onto the yacht when it's "nosed" into the beach. Deck hatches in the forward fairing deck access the anchor and mooring stowage. Steps and low hand rails up the front of the deckhouse lead to large cushions secured to the deckhouse top.

The 14.5 foot wide sailing cockpit is set into the aft part of the deckhouse, with seating extending full width. The steering wheel with helm bench is just off centerline, with sailing and engine controls close by. The companionway leading into the deckhouse is to starboard of the steering wheel and is protected by the same dodger that shields the helm. A bimini extends the full width of the cockpit. Aft of the helm is a companionway leading down to the aft deck.

The spacious aft deck is partially covered by the overhanging deckhouse top. The entire aft deck may be covered with a fabric "roof" zipped onto a semi-permanent frame. Seating for 12 guests stretches across the aft part of the deck, with additional seating for 4 forward on the starboard side. A large counter/bar is located forward to port, with 87 cubic feet of stowage under the sailing cockpit sole. Additional stowage is located under the cockpit seats.

Life rafts and dingy are stowed on brackets/davits attached to the aft cross-beam. Two steps down the transom lead to swimstep/stern "scoops". Triangular nets, port and starboard, stretched between the aft inboard hull and aft crossbeam are ideally positioned to accept wet dive gear, or supplies off-loaded from the dingy.

## ENGINES

(2) 170 h.p. Yanmar 4JH3-HTE diesel engines w/ Hurth HSW 630 V1 vee-drives, 80 Ah alternators (std), and C-type instrument panels. The engines are independently installed with their own seawater intake, raw water strainer, fuel filter/water separator, 150 gal aluminum fuel tank with deck fill and vent, 12 volt starting battery, exhaust system with waterlock.

## ELECTRICAL

- DC Distribution Panel w/ ammeter
- (2) battery banks, each composed of (4) 6 volt - 225 h golf cart batteries, each bank providing 450 Ah @12 volts Voltage regulators and battery combiners for alternator charging of engine starting and house batteries.
- Heart Interface inverter/charger
- AC / Shore Power
- AC breaker panel w/voltmeter
- AC source selection panel
- 7.5 KW diesel generator

- (4) AC GFCI receptacles in deckhouse, in-line from breaker panel to receptacles in each hull; AC receptacles located both heads, cabins, and midship hull spaces. Weather-proof AC GFCI receptacles in sailing cockpit (1) and aft deck area (2)
- Shore power connectors port and starboard on deckhouse aft bulkhead
- (2) 50 ft 30A shore power cords
- 12 Volt Lighting, etc.
- Fwd Stowage Areas - overhead dome light
- Fwd Staterooms - (2) Halogen reading lights over berth, bulkhead light & fan.
- Fwd Heads- Fluorescent bulkhead light, halogen spot light over sink
- Passageway / midships areas - (2) overhead dome light
- Aft Staterooms - (2) halogen reading lights over berth, bulkhead light, (2) fans
- Aft Heads- Fluorescent bulkhead light, (2) halogen spot lights over sink, overhead dome light in shower
- Galley - red/white fluorescent light, (2) halogen spot lights over counter, (2) fans
- Deckhouse - (6) red/white dome lights, (4) halogen reading lights, red/white nav light, (6) fans
- Aft Deck - red/white fluorescent over door, (2) cockpit flood lights, handheld spotlight (owner supplied)
- Foredeck - spreader lights

## NAVIGATION LIGHTS

- 10 pt port and starboard running lights on deckhouse roof
- 12 pt Stern Light on aft crossbeam
- 20 pt masthead/foredeck light on mast
- 32 pt anchor light at masthead

## FRESH WATER SYSTEM

- (2) 200 gal fresh water tanks, integral to yacht's structure.
- 240 gal/day AC powered watermaker
- (2) Pressure fresh water pumps with accumulator tanks supplying; handheld shower & in heads, sink faucets in heads, galley and aft deck bar sink, handheld shower @ starboard side swimstep.
- (2) 12 gal AC water heaters

## **SALT-WATER SYSTEM**

- Salt-water faucet with foot pump at galley sink
- Pressure salt-water outlets for anchor wash, and swimstep shower

## **WASTE SYSTEM**

- (4) heads with y-valve on discharge line to overboard/holding tank
- 12V macerator pumps to empty holding tanks via y-valve to deck fitting/overboard

## **BILGE PUMPS**

Automatic and manual bilge pumps in each hull, functioning as shower sump pumps - thru-hull fittings above waterline on inboard topsides

## **STEERING**

Wheel steering uses a simple cable system lead to a tiller linkage on the aft crossbeam.

## **NAVIGATION AND ELECTRONICS**

- Knotmeter/Sailing Instruments
- Depth Sounder
- Radar
- 6" Compass
- Auto-pilot
- GPS
- VHF

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