

Neptunus 650F (2023-)

Brief Summary

The Neptunus 650F meets CE Category A Ocean standards for exceptional performance and seakeeping. Cruising comfortably at 26 knots, it boasts a spacious and bright interior with a fully-equipped galley, entertainment center and inviting salon with 360-degree views. Experience ease of handling and a relaxing atmosphere on board.

Price

Base Price

Prices, features, designs, and equipment are subject to change. Please see your local dealer or visit the builder's website for the latest information available on this boat model.

Test Results

RPM	MPH	Knots	GPH	MPG	NMPG	STAT. MILE	NM	dBa
1500	16.4	14.3	45.5	0.29	0.3	N/A	N/A	76.3
1750	23.4	20.3	65	0.29	0.3	N/A	N/A	79.1
2000	29.3	25.5	91	0.29	0.3	N/A	N/A	82.7
2050	30	26.1	96.5	0.29	0.3	N/A	N/A	83
2200	34.6	30.1	106.5	0.29	0.3	N/A	N/A	83.4
2340	37	32.2	118.5	0.29	0.3	N/A	N/A	84.5

[View the test results in metric units](#)

Neptunus Perf Chart

Specifications

Length Overall	66' 4" 19.6 m
BEAM	16' 7" 5.09 m
Dry Weight	78,000 lb 35,380 kg
Tested Weight	81,350 lb 36,900 kg
Draft	4' 8" 1.46 m
Draft Up	
Draft Down	
Air Draft	
Deadrise/Transom	
Max Headroom	
Bridge Clearance	22'6" 6.86 m
Weight Capacity	
Person Capacity	
Fuel Capacity	1,000 gal 3,785 L
Water Capacity	265 gal 1,003 L
Length on Trailer	
Height on Trailer	

Trailer Weight	
Total Weight	81,350 lb 36,900 kg
Aft Deck	
Salon Inside Width	
Salon Fore & Aft	
Salon Height	
Salon Volume	
Galley Volume	
Master SR Width	
Master SR fore & Aft	
Master SR Overhead	
Master SR Volume	
Eng. Room Volume	

Acceleration Times & Conditions

Time to Plane	
0 to 20	
Ratio	

Props	31x39.5x5 Veem
Load	4 persons; 250 gal. fuel; 50 lb gear
Climate	64 deg., 35 humid; wind: 0-5 mph, seas:<1

Neptunus 650F

Memorable cruising adventures await aboard the luxurious Neptunus 650F.

Mission

As with her sistership the Neptunus 650E, this beauty is designed and engineered to meet the CE Category A – Ocean standard. That means she is built to navigate the open ocean in excess of Force 8 Beaufort Scale wind conditions, 39-46 mph/34-40 kn, and handle seas greater than 13' (4 m).

While no prudent skipper would venture forth in such states, it’s good to know you have the kind of boat underfoot to handle adverse weather should it come your way. Her new layout presents spacious and comfortable accommodation throughout and a hardtop for the expansive, fully-enclosed and climate-controlled flybridge deck. She is able to deliver exceptional performance, has admirable seakeeping ability and presents ease of handling around the docks and in tight quarter situations thanks to bow and stern thrusters. This is an easy boat for an owner/operator to manage.

Highlights

- CE Category “A” – Ocean Certified Vessel
- Resin infused hull incorporates two layers of Kevlar
- 15 HP proportional bow and stern thrusters
- Yacht Controller system with joystick and remote
- Dual Raymarine 16" Axiom Multifunction Displays with ClearCruise Augmented Reality
- Raymarine Cyclone Pro Radar, 96NM, 4' Scanner
- Seakeeper 9 gyroscope stabilizer system
- Three-stateroom, three-head yacht
- Flybridge layout includes a raised table with barstools and sunpad forward
- Teak decking on flybridge, aft deck and exterior steps
- Custom carbon fibre flybridge hardtop

- High-speed fuel fills for both tanks on port and starboard

Performance

Our test day saw varying sea conditions and some wind but you would not have known it while aboard the Neptunus 650F. Again, leaving our tight dock for our time out on the water was without incident or stress due to utilizing the 15-hp bow and stern thrusters along with a gentle nudge here and there with our throttles turning those 31 x 39.5 x 5, 5-bladed Veem Nibral wheels, all powered by the standard twin 1,136-hp Cat C18 Acert diesels running through 1.97 to 1 reduction gears. Our test boat was very responsive to the helm even with some wind present.

Neptunus 650F type unknown

The Neptunus 650F is built to take sea conditions that are not always welcoming.

Once past the inlet, we could let her go and noticed a prompt and steady reply to the throttles, which we think is impressive for a boat with a test weight of 81,000 lbs. (36,740 kg). At 2340 rpm, we reached our top speed of 32.2 knots. Bringing her down to 2000 rpm resulted in a speed of 25.5 knots and a range of 252 nautical miles. Her most economical planing speed is at 2200 rpm where she went 30.1 knots for a range of 254 nautical miles. Remembering this is a big, comfortable cruising boat designed for distance and with a what's-our-hurry-attitude in place, our range was 623 nautical miles at 9.7 knots.

Handling

This is a large motoryacht, and in being so is not designed for sharp and sudden turns. With that in mind, and getting a bit forceful to port and then over to starboard, we experienced a gentle 12° roll to either side. With nothing happening quickly, everyone aboard remained comfortable. Applying a bit more aggression into the maneuvers, we noted some expected wind-driven spray over the bow and a slight loss of some speed.

Neptunus 650F type unknown handling

Quick to answer the helm, our Neptunus 650F test boat handled the sea conditions in a most satisfactory manner.

In our final exercise, we clocked a 180° turn at 35 seconds using 80% throttle. Our takeaway is we found her responsive to the helm and should any fast or sudden maneuvering be necessary, the Neptunus 650F will be there. Under normal operations, she will deliver a comfortable ride.

Neptunus 650F handling

Our 180° turn displayed the steady control we maintained during the maneuver.

In addition, and with our boat equipped with a Seakeeper 9 gyro, we noted a 1° roll to either side while the boat was at rest and between 4-7° when the gyro was turned off.

On this test, we decided to utilize the Yacht Controller remote to get us back in our tight slip space. We would strongly suggest those without experience and who want to become proficient in using this device to first get lessons with someone expert in its operation and who can instruct you in varying conditions of wind and current as well as with dock locations. Once skilled in its use, you will have unrestricted visibility all around the boat while still controlling all movements. Just remember to keep the bow of the controller aligned with the bow of the boat.

Neptunus 650F docking

Complete control when docking the Neptunus 650F, even in this tight space, utilizing both bow and stern thrusters as well as the mains is in the palm of your hand with Yacht Controller's remote.

Exterior

Neptunus 650F

The Neptunus 650F is a well-proportioned boat with sleek, head-turning modern lines whose profile clearly states she belongs at sea, in motion, and not in the dock. That's not to say an elegant gathering while in the slip is totally out of the question. But to experience her underway is quite special. She presents a low-profile exterior with stylishly-designed windows and accents.

Neptunus 650F

Boarding is made safe and easy via the hydraulically-operated wide, carbon fiber and teak platform. That robust open door opens to the crew quarters. To port and starboard are wide staircases to the aft deck dining area and entrance to the salon. Additional boarding is courtesy of amidships rail openings which lock back into place when done. We found sturdy grabs strategically placed all around.

Neptunus 650F

This overhead picture shows the dual staircases leading up from the swim platform to the aft deck.

Neptunus 650F

The bow area offers a pair of sunpad/lounges which can be put in several upright positions. The hatch is for the VIP quarters in the forepeak below.

The aft deck is sure to be the place for a late-day respite for pre-dinner appetizers. A transom couch, highly-finished dining table and teak deck add a touch of elegance.

Neptunus 650F

Access to the salon is through the glass sliding door. A staircase to starboard leads to the bridge deck. An electric grill and a sink are located to port.

Neptunus 650F

It's easy to see why the aft deck is sure to be popular whether on the hook or underway. Note the large overhead, the sturdy stainless supports and the recessed lighting.

Neptunus took full advantage of the 650F's LOA and her beam in planning out the impressive bridge deck. Upon arrival up from below, you enter an expansive and all-inclusive area offering dining, comfortable dining spaces, and the forward, centerline helm, which is the only one found aboard.

Neptunus 650F

As you can clearly see from this schematic, the Neptunus 650F has a bridge deck that is a great place to hang out.

Neptunus 650F

With more than ample seating, exciting al fresco dining opportunities await. The raised starboard dining table for four will be greatly sought after. Offering 360° views, it would seem that advanced reservations are going to be necessary.

There is plenty of storage space here as well as an ice-maker, refrigerator, teak decking and air conditioning since there is a $\frac{3}{4}$ Isinglass enclosure.

Neptunus 650F

With three Stidd pedestal seats, the helm offers a well-planned and expertly designed control center with all electronics, switches, controls, and monitoring systems all within easy reach. And that large center window is glass to allow for the windshield wiper.

Features Inspection

Salon, Galley and Forward Entertainment Space

Entering through the smoked glass doors from the aft deck, you are immediately taken in by the craftsmanship, attention to detail, fit and finish, and well-balanced décor in the main deck salon.

The functional layout here, designed for ease of movement as well as comfort, offers the fully found galley to starboard with a full-size double-door refrigerator, an adjoining table and seating, expansive counter space, and abundant storage. Hardwood flooring adds a touch more elegance. There is a ceramic four-burner stove top, 24" oven, convection microwave, dishwasher, and a JennAir beverage center to port including a Jura coffee maker with a One-Touch Cappuccino feature, sure to be a hit with everyone.

Neptunus 650F

The galley area shows off Neptunus' attention to detail and its excellent use of space. Here, in the galley area, hardwood floors compliment the bright and airy feel.

Neptunus 650F

A wine chiller will come in handy during overnight stays when the day's traveling is done. Note the fine fit and finish on the cabinetry.

Forward is the beautifully realized entertaining and gathering space, where to starboard, there is a sizeable and dramatically-designed couch with an adjoining glass-top coffee table. Opposite is a raised platform dinette and just forward, on the centerline, are the stairs leading to the accommodations deck. This entire space is surrounded by large glass windows allowing the salon to be flooded with ambient light. And with numerous LED lights overhead, evening moods can easily be set.

Neptunus 650F

Light color furniture contrasts well with the darker wood finishes for a dramatic and eye-catching room.

Accommodations

The centerline salon stairway forward opens up into yet another spectacular use of space and materials. The Neptunus 650F is a three-stateroom, three-head layout with separate crew quarters aft.

Neptunus 650F

The full beam master is amidships with guest quarters forward and to starboard. The VIP stateroom is located in the forepeak and all are en suite.

Neptunus 650F

Looking up from below, the dramatic entrance to the living accommodations welcomes those aboard to an elegant and luxurious setting.

Master Stateroom

Neptunus 650F

Expert attention to detail surrounds the owner's stateroom with fine craftsmanship and fit and finish everywhere. Large windows provide plenty of ambient light. An overabundance of storage space, here as well as throughout the entire yacht, allows for taking anything you might need during those extended times away from home.

Neptunus 650F

The master head mirrors the same level of refinement as that found in the stateroom.

Forepeak VIP

Neptunus 650F

The forepeak VIP has a centerline berth, portlights to either side and an overhead hatch.

Neptunus 650F

The ensuite VIP head offers glass and wood accents for a stylish design touch.

Starboard Guest Quarters

Neptunus 650F

The starboard guest quarters are surrounded by fine cabinetry work and ample storage space.

Neptunus 650F

As with all the en suite heads aboard, the guest quarters have a separate shower compartment.

Crew Quarters and Engine Room

While designed as an owner/operator yacht, the Neptunus 650F does come equipped with suitable crew quarters. Access is via a large, articulating door located aft at the transom and easily opened from the swim platform. The space is well-lit and is equipped with a comfortable berth, a head with a separate shower, and a water-tight door to the engine room.

Neptunus 650F

The comfortable crew quarters have access to the breaker panel and genset controls on the forward bulkhead.

Neptunus 650F

The tempered glass window allows careful monitoring of things inside the engine room.

The engine room itself is well-lit and has been designed and engineered for easy access to all critical maintenance areas. With plenty of space to avoid any knuckle-busting, elbow-smashing, or back-bending work, the hands-on skipper will find access to all the necessary systems including filters, pumps, sea strainers, genset, air conditioning, and electricals all clearly marked and labeled. And as with the nothing-spared or overlooked attitude found above decks, the same attention to detail and safety is located here.

Neptunus 650F

Wide open spaces for all maintenance work and critical fluid checks await the hands-on skipper. That ladder over to port offers another entrance/exit to the aft deck.

Neptunus 650F

Neptunus has provided plenty of workroom between the mains. Note the camera keeping an eye on things in the overhead.

Observations

Promises made, promises kept. The Neptunus 650F delivers on those assurances and so much more. From her CE Category A Ocean certified vessel to solid construction techniques featuring a resin-infused hull, incorporating two layers of Kevlar, to her outstanding design and implementation of creature comforts including her flybridge, salon and galley, and living accommodations, along with a hands-on engine room for the owner/operator, she is the kind of yacht purpose-built for comfort and security while underway.

Unlimited horizons await aboard the Neptunus 650F.