NEW BUILD - 15m Hybrid Electric Tourism / Passenger Vessel
Listing ID: 1265856

DESCRIPTION: NEW BUILD - 15m Hybrid Electric Tourism / Passenger Vessel
DATE LAUNCHED: Built to Order
LENGTH: 15m (49ft 2in)
BEAM: 5m (16ft 4in)
DRAFT: 0.7m (2ft 3in)
LOCATION: ex factory, Taiwan
BROKER: Geoff Fraser
PRICE: USD 495,000 ex factory

General Description

Hybrid & Electric Touring Passenger Boat – THS-H1
THS-H1 was a pioneering inland waterway coast-going sightseeing/passenger vessel catamaran exclusively combined with state of art electric hybrid propulsion systems and entire on-board power management... everything from a smart user friendly integrated systems, reducing emissions, enhancing efficiency and ensuring commuters tourists travel in total comfort With 15m for its LOA, 5m in width and shallow draft is only 0.7m. Combine with modern quieter electric hybrid propulsion systems which results a smoother propulsion experience.

Complete & efficient propulsion
THS-H1 results in less wave drag and friction than other conventionally constructed and powered ferry/passenger vessels due to some important key factors like the weight-optimizing design, outstanding shape, good materials and developed construction techniques. The boat allows 42 passengers and 2 crews.

Hybrid Electric Propulsion and Integrated System Management
THS-H1 is to devise an all new propulsion system that largely eliminates emission. It features with a state-of-the-art propulsion system comprising of 2x33KW electric PM (Permanent Magnet) motors, a 57 KWh high performance Lithium Iron Phosphate Battery pack, a 40 KW diesel generator and an advanced control system allows the cruising speed of 6 knots and reaches a maximum speed up to 9 knots, prolonged cruising about 12 hours in e-motors & diesel generator operation mode (the diesel generator supply sufficient energy to cover long distance when necessary). Also the diesel generator delivers on-demand power to support propulsion or auxiliary power or both simultaneously. There are three modes of operation: in e-motors, or in diesel generator, or both in e-motors and diesel generator. The operators can choose the available power in the way they wish. When it is in electric mode, there is no emission. The Li-ion batteries are to further improved fuel savings and create the ability to reduce emissions. There is not a need for maintenance or repair job, neither the batteries nor electric motors.

The combination of power generated from battery and by generator means that there is a sufficient power available.

Installing with the smart/friendly user interface to supervise overall operating performance. It is convenient to use for the operators.

Remote Monitoring
One more important function, our systems can be remotely monitored and controlled all over the world.

Interior
The deck space is fully customizable, the interior layout and seating arrangements can be configured in many different options entirely according to the customer’s demand, from luxurious and comfortable features to economical appliances. The standard option comprises a wheelhouse, main cabin and an open aft deck. The cabin is a large panoramic area with 1.9m headroom a sliding door and sliding windows with locks, the roof is fitted with reinforced visible glass panels, a remote curtain on glass ceiling panels preventing heat from high temperature in daytime, two tables and two U-shape soft sponge bench cushions on the right side, three tables and six rows soft sponge bench cushion on the left side. There is a door after cockpit which can be locked or closed. Installed with LED spotlights and LED soft day ceiling glass panels. The open aft deck is wide space with 18 square meters, decorated with a wide U-shape soft sponge bench cushion and two tables, passengers can enjoy the beautiful scenes. There is a toilet in front of right aft deck.

15 June 2016 - Listing ID: {1265856}
THS-H1 is developed as a passenger/trip boat for coastal and all inland transportation. It is significantly effective all over their speed range.

Besides being efficient, THS-H1 exhibits optimized performance in coastal and inland waterway conditions - an important element in comfort and safety when underway. THS-H1 manages the aspects of water situation with ease. It is the best choice for public transportation systems.

**New Build Technology**
- Comfort
- Environmentally friendly
- Cost-effective
- Advanced smart system integration technology
- Low emission
- Low and simple maintenance
- Quieter passage
- Deliver power-on demand
- Increases operation efficiency & performance
- Ease of use

**The System Package**
A fully electronically managed and low maintenance system.
- The power system design follows the NMEA 2000 (National Marine Electronics Association-USA).
- Powered by cutting edge technology of LiFePO4 battery which occurs no environmental pollution.
- Equipped with PM electric motors for effective propulsion to reduce noise and free of smokes under navigation.
- The diesel generator delivers on-demand power to support propulsion or auxiliary power or both simultaneously.
- System Design is made as low power consumption to avoid unnecessary power loss
- The advanced touch screen displays can promptly show/deliver the warning message to the operator when it detects abnormal situations.
- High Voltage Security Disconnect System can protect batteries from shortage, leakage, collision and other dangerous conditions.
- The Smart Charging/Switch System effectively controls power charging and ensure the security.
- The output management system provides the control of motor power system for the abnormal detection.
- BMS (Battery Management System) remains the balance of all battery cells.
- The closed type Charger with fan can be resisted to water, salt and dust
- 24V power supply system offers dynamic power adjustment, improves the system reliability

**DESCRIPTION:** Hybrid Electric Sightseeing/Passenger Vessel

**GENERAL**
BASIC FUNCTIONS: Sightseeing/Passenger Transportation  
CLASIFICATION: None (upon requested)

**DIMENSION**
LOA: 15m  
BREADTH: 5m  
DEEP: 1.5m  
DRAFT: 0.7m  
DISPLACEMENT: 13 tons

CAPACITY: 42 Passengers, 2 Crews  
SPEED PERFORMANCE: 6 knots for about 8 hours, Max. 8 knots (Two operation modes: in e-motors, or both in e-motors and diesel generator)  
HULL: FRP

**HYBRID AND ELECTRIC PROPULSION SYSTEM**
ELECTRIC MOTOR x 2: PM (Permanent Magnet) Type, 2X25KW  
DIESEL GENERATOR x 1: 20KW  
BATTERIES: Li-ion batteries, 50KWh  
4 BLADES COPPER PROPELLER

MATERIAL OF MARINE HARDWARE: 304# Stainless Steel (Plated)  
PROPELLER SHAFT AND RUDDER SHAFT: 304# Stainless Steel  
STEERING: Manual oil hydraulic steering with rudder angle indicator

**WHEEL HOUSE**
FIXED PILOT SEAT: 1 set  
DASHBOARD: 1 set  
THROTTLE: 1 set  
INFORMATION DISPLAY CONSOLE (DIGITAL CONTROL SYSTEM): 1 set

**NAVIGATION EQUIPMENT**
COMPASS: 4”, 1 set
VHF: 1 set
GPS: 1 set

MECHANICAL EQUIPMENT
LIGHTING INBOARD AND OUTBOARD: LED
REMOTE SEARCHLIGHT: 150W, 1 set
MARINE PROJECTOR: 1 set
NAVIGATION LED LIGHT: 7 pieces
HORN: 1 set
OUTBOARD SPEAKER: 1 set
FRESH AIR BLOWER: 6 sets
SOCKETS: 110V, 10 sets

MAIN CABIN
Melamine board or APB (aluminum plastic board) cabin wall; wooden seat with sponge cushion; aluminum frame and Melamine board or APB(aluminum plastic board)roof; aluminum alloy door and window; wooden dining table.

AFTER DECK
1.2M*0.9M plastic dining table x 2 Wide U-shaped FRP seat for appx. 10 persons Toilet x 1

ENTERTAINMENT EQUIPMENT
32" TV with fordable frame x 1 PVC speaker x 4 DVD player x 1 Amplifier x 1

MONITORING SYSTEM
NVR site x 1
Camera x 4
20" Display x 1

LIFE SAVING AND FIREFIGHTING
Life jacket x 44
Lifebuoy x 2
Portable dry powder extinguisher x 2
Parachute Signal Rocket x 4
First aid kit x 1

FENDERING
PE surrounding fender
1m*25cm fender x 6

PUMPING AND PLUMBING
Copper or stainless steel drainer
PVC steel wire pipeline
24V Bilge pump x 6
24V Fresh water pump x 1
IMPORTANT: The Company offers the details of this vessel in good faith but cannot guarantee or warrant the accuracy of this information nor warrant the condition of the vessel. A buyer should instruct their agents, or their surveyors, to investigate such details as the buyer desires validated. This vessel is offered subject to prior sale, price change, or withdrawal without notice.

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