YF12e Hybrid Series

Discover YANMAR's YF12e Hybrid Technology, an all-in-one hybrid electric propulsion system for recreational marine, ensuring seamless operation and enhanced efficiency.



FEATURES

- Complete YANMAR Package: YANMAR 4JH80 / 4JH110 engine, gear, electric motor, batteries, cooling, monitoring, and control—all from one trusted source.
- Uses lithium-ion batteries to power propulsion and power onboard systems quietly.
- 5-inch touchscreen display with user-friendly interface: centralized control for all modes of operation and system monitoring.
- Multiple operation modes include Engine, Hybrid, Electric (EV), Silent Generator, Quick Charge.
- One-for-One Hybrid Charging: 1 hour in hybrid mode charges enough for 1 hour in EV mode.
- The YF12e comes standard with a 23kWh battery pack (4 batteries), which can be doubled to 46kWh.

BENEFITS

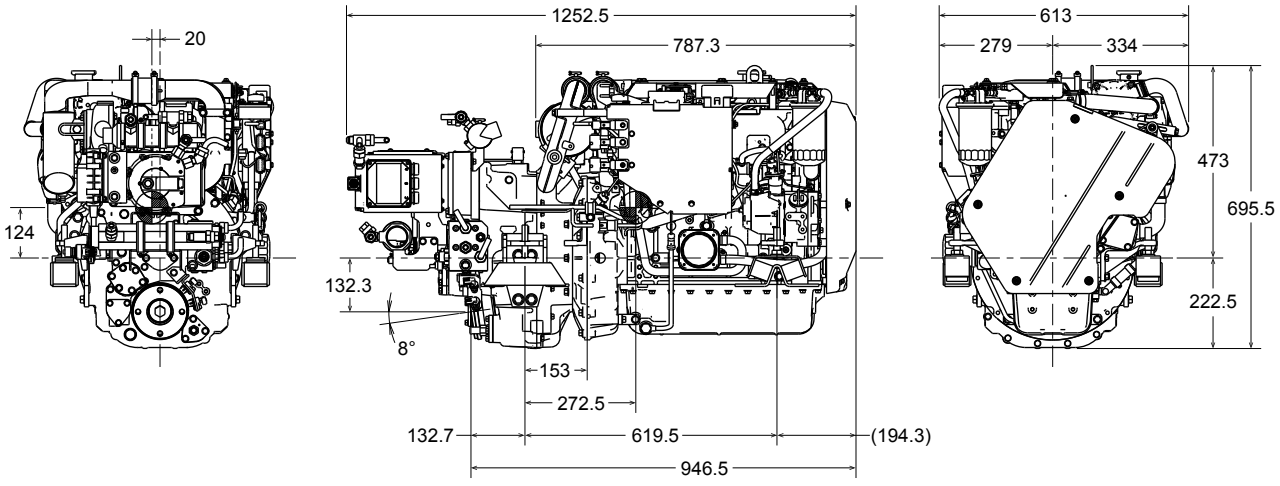
- YF12e fits on the same engine bed as a standard 4JH with angled gear. No hull modifications are needed.
- Easily switch between combustion engine, hybrid or electric power modes without structural changes.
- Efficient charging: one hour in hybrid mode delivers enough charge for one hour of electric-only cruising.
- Supports renewable HVO fuel for cleaner operation without compromising performance.
- Utilizes lithium-ion batteries to enable near-silent power generation when needed.
- Designed to reduce fuel consumption and greenhouse gas emissions for more sustainable cruising.
- The YF12e offers a hotel load output for a 4kW (with standard battery) or 8kW (with optional battery) inverter*.

*inverter not included

SPECIFICATIONS

Combustion Engine	
Compatible engines	4JH80 & 4JH110
Rated output 4JH	80 mhp @ 3200 rpm | 110 mhp @ 3200 rpm 58.8 kW @ 3200 rpm | 80.9 kW @ 3200 rpm
EV Mode	
Rated continuous output	8.3 kW @ 4969 rpm
Max. power output	12.1 kW @ 5632 rpm
Genset / Hybrid Mode	
Power generation (rated)	≥4.5 kW @ Engine 1200 rpm
Power generation (max)	≥10.5 kW @ Engine 2500 rpm
Marine Gear	
Model name	KM-70HEA
Ratio	2.43 i (4JH) | 8.05 i (E-motor)
Rake angle	8°
Battery	
Nominal voltage	51.8 V (min 43.4 V, max 58.1 V)
Capacity	23 kWh (4 x 5.75 kWh) Standard | 46 kWh (8 x 5.75 kWh) Optional
Power availability for domestic/house loads	4 kW (23 kWh), 8 kW (46 kWh)
Control System	
Vessel control system	VC20
YF12e hybrid control	Via 5-inch touchscreen display

DIMENSIONS



NOTE:
1. ⊕ SHOWS THE CENTER OF GRAVITY.
2. 4JH110 (ENGINE) DETAILS REFER TO B2-29677-0011.
3. KZ18MA (MARINE GEAR) DETAILS REFER TO Z5-77580-0020.

NOTE: All data subject to change without notice. Text and illustrations are not binding.

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