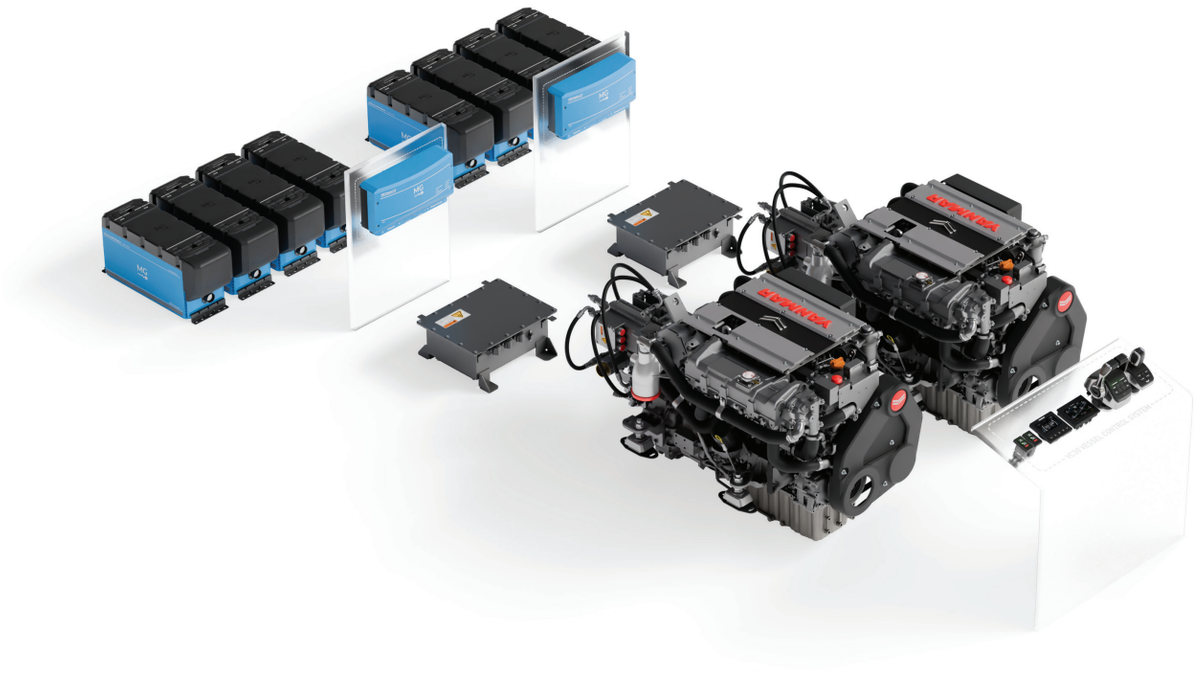
YANMAR

MARINE HYBRID SERIES

YF12e Hybrid

Discover YANMAR's YF12e Hybrid Technology, an all-in-one hybrid-electric propulsion 48V system.



FEATURES

- Compatible with multiple YANMAR engine models:
  - 4JH80 / 4JH110, 4LV150 / 4LV170 / 4LV195 / 4LV230 / 4LV250
- Multiple operation modes include:
  - HYBRID mode - Simultaneous use of diesel engine for propulsion and electric motor for charging.
  - EV mode - Purely electric propulsion.
  - ENGINE mode - Normal diesel engine operation.
  - GENSET mode - Diesel engine running for charging as a generator.
- Centralized control for all modes of operation and system monitoring - via user-friendly, 5-inch touchscreen display.
- EV mode - Up to 12 kW E-motor propulsion.
- HYBRID mode & GENSET mode - Up to 10.5 kW for electric generation.
- Applicable for Leisure, Charter & Light Duty Commercial applications.
- Approved for single and twin installation.

BENEFITS

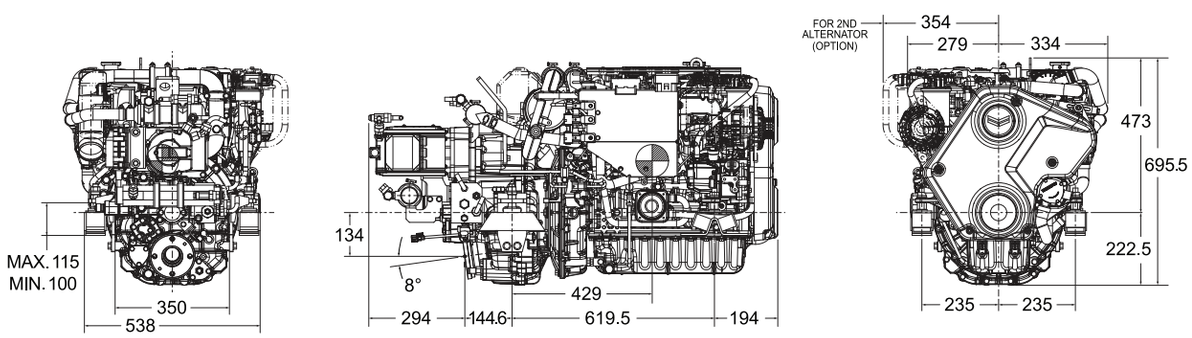
- Complete YANMAR package offers a single-source hybrid propulsion solution:
  - Engine, hybrid gear, batteries, VC30 control system with joystick.
  - Each key component is fully integrated under YANMAR's development.
- Generate electricity and charge batteries while using engine for propulsion during HYBRID mode.
- Quiet, smooth operation during EV mode.
- Hydro-generation charging in EV mode above maximum motor speed during sailing.
- The patented system changes between 2 clutches based on operation mode optimizing the system for both propulsion and charging.
- Entire system fully supported by YANMAR warranty and global service network.

SPECIFICATIONS

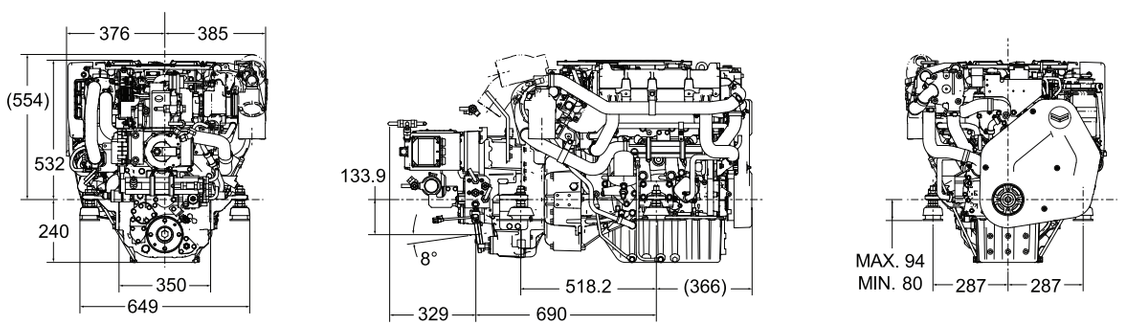
**Available for Single or Twin engine installation*

Combustion Engine	
HVO-approved compatible engines	4JH80 / 4JH110 / 4LV150 / 4LV170 / 4LV195 / 4LV230 / 4LV250
Genset / Hybrid Mode	
Engine operation range	800 - 3000min-1
Power generation (max)	10.5 kW @ Engine 2500min-1
EV Mode	
E-motor operation range	1000 - 6000min-1
Max. power output	12.1 kW @ 51.8V equivalent to propeller speed / 1700min-1 (4JH110) and 1560min-1 (4LV250)
Marine Gear	
Model name	KM-70HEA
Ratio	2.43 i (4JH & 4LV) | 8.05 i (E-motor)
Down angle	8°
Dry Weight Engine & Marine Gear (marine gear: 92kg)	
4JH80 / 4JH110	325kg
4LV150 / 4LV170 / 4LV195 / 4LV230 / 4LV250	428kg
Li-ion Battery	
Compatible battery	MG LFP IP 25.6V / 230Ah / 5800Wh
Nominal voltage	DC 51.2V (25.6V x 2)
Capacity	Minimum: 23kWh (4 batteries)
Control System	
Vessel control system	VC30 with 5-inch touchscreen display and joystick

DIMENSIONS - 4JH80 / 110 X KM-70HEA



DIMENSIONS - 4LV X KM-70HEA



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

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