

DYNAMICA
MARINE GENSETS



DYNAMICA

MARINE GENSETS

DYNAMICA Generators

Dynamica gen-sets are developed and manufactured in Italy. They are the ideal power supply for day-cruiser and sailing boats: compact, reliable and quiet, the range starts from 3,2 kW as peak power rating and goes up to 9,6 kW. The product quality and a correct installation are the best guarantee for a safe and relaxed cruise. In any case, a widespread service network can assure a high quality standard assistance in case of need.

Engine

- Yanmar or Kubota engines with “silent-block” mounts
- Easy access to fuel line, lubrication system, sea/water pump and air filter
- Safety stop in case of low oil pressure, high temperature of engine or exhausts
- Double vibration reduction system
- Oil drain pump provided

Alternator

- Synchronous, 2 poles, self-regulated, brushless self-excited.
- Rotor and stator coated with epoxy resin against external agents.
- Rotor dynamically balanced.
- Insulation class: H.
- Safety stop for high-temperature.

Engine and alternator cooling

The engine cooling is based on a closed inner flow of coolant. The system is based on a heat exchanger sea-water/coolant type, of cupronickel, where the thermal exchange occurs between the two liquids. Two separate pumps contribute to the flow of the coolant and the sea water. The cooling of the air inside the gen-set is obtained through a seawater/air heat exchanger. This provides the efficacious cooling of the alternator and the optimal temperature for the best performance and reliability of the gen-set despite its allocation and room temperature.

Sound shield

Completely redesigned and re-engineered, the new sound shield is made up of painted aluminum panels. Extremely resistant and light in weight, it allows the easiest access to the inner parts of the generator for service. Both the main frame and the panels are made of aluminum alloy 5754.

Control Unit

- IP54 protection
- ON/OFF/START/STOP/MENU soft-touch buttons
- Digital hour-meter, main voltage, generator battery voltage, external battery pack voltage, frequency, service time, event list of last 10 alarms and time.
- 13 alarms icons
- 485 Mod-Bus connector for monitoring generator by boat main control monitor
- GSM control option (ON/OFF – alarms)



DYNAMICA MINI 40E

MINI 40

The most compact of Dynamica range, it is extremely powerful and silent you even notice it is working. Available both in 50 Hz or 60 Hz version, it is powered with one of the most popular Yanmar engines.

ENGINE

	50 Hz	60 Hz
Model	Yanmar L70N	Yanmar L70V
Type	Diesel, 4 stroke	
Power (HP)	6.1	6.7
Bore/Stroke mm (inch)	78/67 (3/2.63)	
Displacement (cc)	320	
RPM	3000	3600
Compression ratio	20:1	
Combustion system	Direct injection	
Speed governor	Centrifugal mechanical	
Lubrication system	Forced	
Fuel consumption (l/h)	1.3	1.5
Starting battery (Ah-V)	45-12	
Max. Inclination	30°	
Water pump flow (l/min)	20	
Exhaust pipe diam. (inch)	2	
Certification	-	EPA Tier III

ALTERNATOR

	50 Hz	60 Hz
Type	Brushless, synchronous 2 - poles, self-excited	
Voltage (V)	115 - 230	120 - 240
Frequency (Hz)	50	60
Amps	26 - 13	26.6 - 13.3
Max. Power output (kW)	3	3.2
Continuous power output (kW)	2.7	2.9
Battery charging output (A-V)	10 - 12	
Power factor (cos φ)	1	
Insulating class	H	
Voltage stability	± 10%	
Frequency stability	± 5%	

	50 Hz	60 Hz
Dimension (Lenght x Width x Height)	593.4 x 407 x 515 mm (23.2 x 15.9 x 20.3 in)	
Weight	96 kg – 211 lb (with sound shield)	
Noise level	54 dB(A) at 7 m (23 ft)	56 dB(A) at 7 m (23 ft)

DYNAMICA MARINE GENSETS

MINI 60

It delivers 5 stable kW in a very compact case: it is the new MINI 60, with its reliable Yanmar engine, it is ideal for motorcruisers with a little more power need.

ENGINE

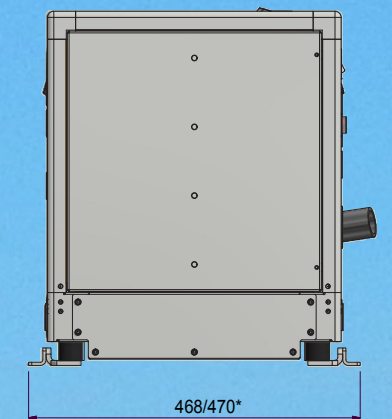
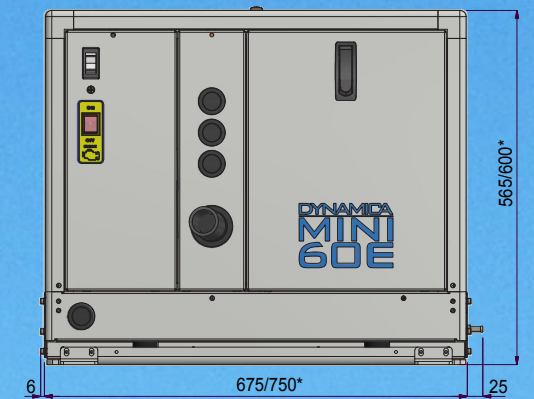
	50 Hz	60 Hz
Model	Yanmar L100N	Yanmar L100V
Type	Diesel, 4 stroke	
Power (HP)	8.89.1	9.1
Bore/Stroke mm (inch)	86/75 (3.38/2.95)	
Displacement (cc)	435	
RPM	3000	3600
Compression ratio	20:1	
Combustion system	Direct injection	
Speed governor	Centrifugal mechanical	
Lubrication system	Forced	
Fuel consumption (l/h)	1.65	2.5
Starting battery (Ah-V)	45 - 12	
Max. Inclination	30°	
Water pump flow (l/min)	20	
Exhaust pipe diam. (inch)	2	
Certification	-	EPA Tier III

ALTERNATOR

	50 Hz	60 Hz
Type	Brushless, synchronous 2 - poles, self-excited	
Voltage (V)	115 - 230	120 - 240
Frequency (Hz)	50	60
Amps	43.5 – 21.7	47.5 – 23.7
Max. Power output (kW)	5	5.5
Continuous power output (kW)	4.2	4.8
Battery charging output (A-V)	10 - 12	
Power factor (cos φ)	1	
Insulating class	H	
Voltage stability	± 10%	
Frequency stability	± 5%	

	50 Hz	60 Hz
Dimension (Lenght x Width x Height)	675 x 468 x 565 mm (26.6 x 18.4 x 22.2 in)	750 x 470 x 600 mm (29.5 x 18.5 x 23.6 in)
Weight	130 kg – 286.6 lb (with sound shield)	
Noise level	54 dB(A) at 7 m (23 ft)	56 dB(A) at 7 m (23 ft)

DYNAMICA MINI 60E



*60Hz

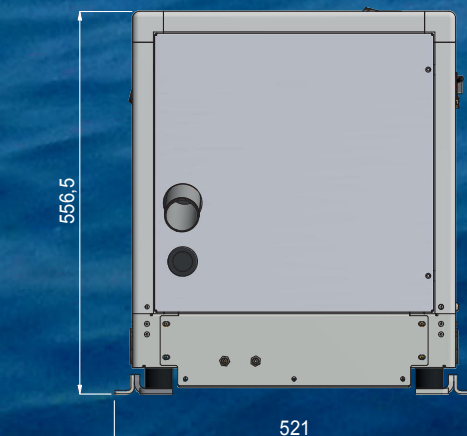
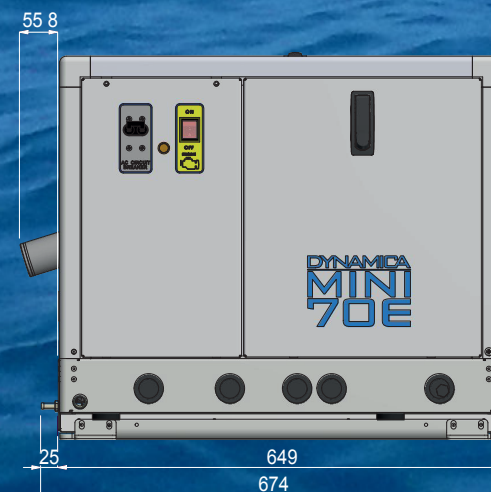
DYNAMICA MINI 70E

MINI 70

A first-class generator, with the quality of Kubota engine and the reliability of high-standard components, tested over the years all over the world.

ENGINE

	50 Hz	60 Hz
Model	Kubota Z482	
Type	Diesel, 4 stroke	
Power (HP)	11.1	13.3
Bore/Stroke mm (inch)	67/68 (2.64/2.68)	
Displacement (cc)	479	
RPM	3000	3600
Compression ratio	23.5 : 1	
Combustion system	Direct injection	
Speed governor	Centrifugal mechanical	
Lubrication system	Forced	
Starting battery (Ah-V)	45 - 12	
Max. Inclination	30°	
Water pump flow (l/min)	20	
Exhaust pipe diam. (inch)	2	
Certification	-	EPA Tier III



ALTERNATOR

	50 Hz	60 Hz
Type	Brushless, synchronous 2-poles, self-excited	
Voltage (V)	115 - 230	120 - 240
Frequency (Hz)	50	60
Amps	53 - 26.5	59.2 - 29.6
Max. Power output (kW)	6.1	7.1
Continuous power output (kW)	5.6	6.6
Battery charging output (A-V)	10 - 12	
Power factor (cos φ)	1	
Insulating class	H	
Voltage stability	± 10%	
Frequency stability	± 5%	

	50 Hz	60 Hz
Dimension (Lenght x Width x Height)	650 x 468 x 555 mm (25.6 x 18.4 x 21.8 in)	
Weight	165 kg – 363 lb (with sound shield)	
Noise level	54 dB(A) at 7 m (23 ft)	56 dB(A) at 7 m (23 ft)

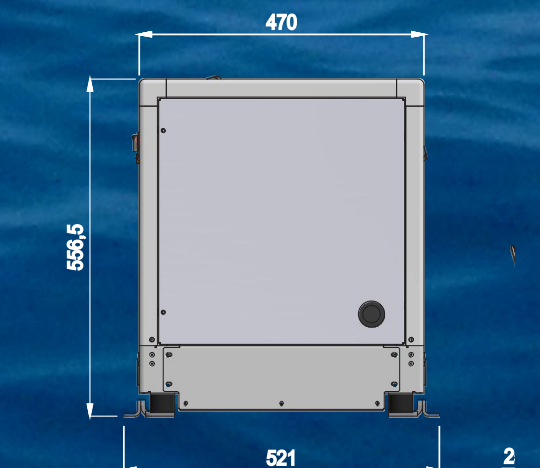
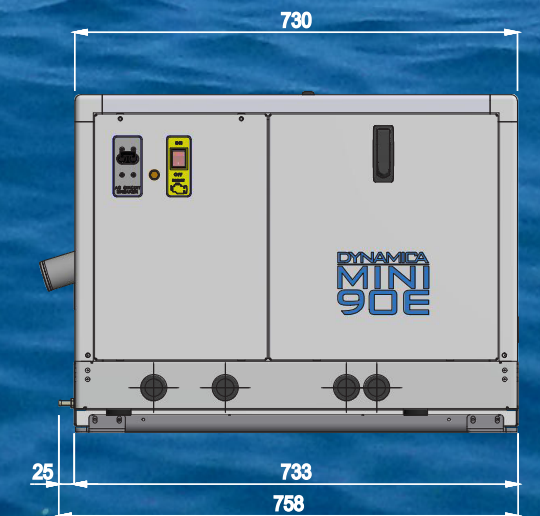
DYNAMICA MINI 90E

MINI 90

Top of the range, the MINI 90 is equipped with a powerful Kubota engine which delivers more than 9kW with an extremely low noise level.

ENGINE

	50 Hz	60 Hz
Model	Kubota D722	
Type	Diesel, 4 stroke	
Power (HP)	16.6	20.0
Bore/Stroke mm (inch)	67/68 (2.64 x 2.68)	
Displacement (cc)	719	
RPM	3000	3600
Compression ratio	23.5 : 1	
Combustion system	Direct injection	
Speed governor	Centrifugal mechanical	
Lubrication system	Forced	
Starting battery (Ah-V)	45-12	
Max. Inclination	30°	
Water pump flow (l/min)	20	
Exhaust pipe diam. (inch)	2	
Certification	-	EPA Tier III



ALTERNATOR

	50 Hz	60 Hz
Type	Brushless, synchronous 2-poles, self-excited	
Voltage (V)	115 - 230	120 - 240
Frequency (Hz)	50	60
Amps	74.7 - 37.4	80 - 40
Max. Power output (kW)	8.6	9.6
Continuous power output (kW)	7.8	8.8
Battery charging output (A-V)	10 - 12	
Power factor (cos φ)	1	
Insulating class	H	
Voltage stability	± 10%	
Frequency stability	± 5%	

	50 Hz	60 Hz
Dimension (Lenght x Width x Height)	730 x 468 x 555 mm (28.7 x 18.4 x 21.8 in)	
Weight	185 kg – 407 lb (with sound shield)	
Noise level	54 dB(A) at 7 m (23 ft)	56 dB(A) at 7 m (23 ft)