mase GENERATORS NORTH AMERICA

YANMAR Diesel Power

2 YEAR/ 2000 HOUR WARRANTY

26.5 kW maximum power
24.5 kW continuous power

Genset Model # IS24.5

Control Panel

- The microprocessor based design features a vibration-proof keypad with UV protection.
- Digital hour-meter
- Remote ON/OFF panel (5-3/8" x 3-3/4") w/ 65' cable standard.
- Low oil pressure light and safety cut-out
- Engine and alternator high temperature warning lights and safety cut-out
- Remote Control panel with instruments is optional.

Engine

- Easy access serviceability of injection and lubrication system, sea water pump and air filter
- Low oil pressure safety cut-out
- Exhaust high temperature cut-out
- Double vibration damping system
- Easy access to the disposable oil filter
- Built-in oil sump evacuation pump

Alternator

- Synchronous, 4 poles, brushless, self-excited, electronic voltage regulator (AVR)
- Rotor and stator epoxy resin coated against external agents.
- Rotor dynamically balanced.
- Insulation class H.

Sound absorbant exterior housing

The aluminum housing provides effective sound reduction and ensures the proper operation of the intercooler system. The top and side panels are removable, offering easy access during installation, and maintenance, even in very tight areas. The exterior housing of the IS24.5, offers practical, quiet function with size efficiency.

Engine cooling system

The engine cooling system is based on an internal closed coolant system. The two pumps of the raw water/coolant heat exchanger also reduce the temperature of the air flow inside the box. This system cools the alternator providing the optimal temperature for the best performance and reliability of the genset, regardless of its on-board location.

Engine

Model:	**Yanmar 4TNV98**
Type:	Diesel/4stroke
Cylinders:	4
Cylinder block material:	Cast iron
Bore:	3.80”
Stroke:	4.3”
Displacement :	3319 cc
Power @ 1800rpm:	56hp
RPM:	1800
Compression ratio:	18:1
Combustion system:	Direct injection
Engine head material:	Cast iron
Speed governor:	Centrifugal mechanical
Lubrication system:	Forced
Oil sump capacity with filter:	10.78 qt.
Engine stop system:	Fuel solenoid
Fuel pump:	Mechanical
Fuel pump discharge:	2.6'
Fuel consump. @ full load:	1.98gal/hr
Air combustion requirment:	79cfm
Starting battery:	80Ah - 12V
Battery charger:	40Ah - 12V
Max. inclination:	30°
Water pump flow:	9.9 gal/min.

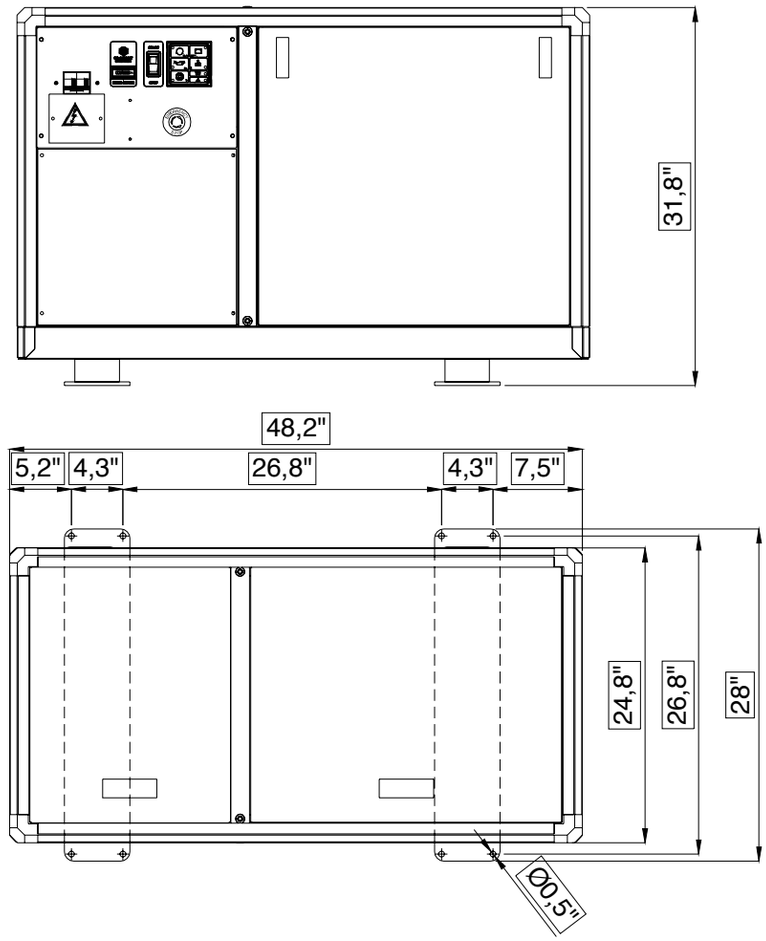
Generator Ratings

Type:	Brushless, synchronous, 4-poles, self-excited
Cooling:	Air/water (Intercooler water/air)
Voltage:	120 - 240V
Nominal current:	220.8 - 110.4 A
Frequency:	60Hz
Max. power:	26.5kW
Continuous power:	24.5kW
Power factor (cos ø):	1
Insulating class:	H
Voltage stability:	±2%
Frequency stability:	±5%

The cooling system

The cooling of the engine is based on a closed inner flow of coolant. The system is based on a heat exchanger seawater/ 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 on board allocation and room temperature.

Dimensions: (LxWxH) 48.2" x 24.8" x 31.8"
Weight: 1388 lbs.
Sound Level: 56 dBA at 23' (7m)



Suggested Installation Accessories

Exhaust Kit - reduces sound of engine exhaust
Water/Gas Separator Kit - separates water and exhaust while further reducing sound
Siphon Break - prevents sea water from entering the generator when off... *mandatory for below waterline installations*
Remote Control Panel with instruments- Remote ON/OFF control with engine temperature, oil pressure, voltmeter, hourmeter (panel size *10" x 6"* with a 65' shielded cable)

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