

## Generator set Silenced 33KVA 100LT Stage V

Reference: GES33K100SV



### 33KVA 100LT Stage V Silent Generator

The 33 KVA three-phase generator is equipped with a Stage V Yanmar diesel engine capable of delivering 33 KVA with an AVR voltage regulator.

The generator is equipped with an oversized Yanmar engine capable of delivering a continuous power of 30 KVA and a maximum power of 33 KVA. Thanks to the 100L fuel tank, the generator has an autonomy of up to 15 hours of operation.

The 33 KVA silent generator has been built with a high-performance frame to minimize sound pressure. The frame is made of steel plates manufactured according to UNI S235JR standards, complete with rubber anti-vibration mounts.

The 33 KVA generator is complete with doors that allow easy access for routine or extraordinary maintenance. To make this generator as quiet as possible, environmentally friendly acoustic foam has been used that is 100% recyclable, self-extinguishing, fireproof, and washable, compliant with fire reaction class 1, and mechanically fixed to the frame.

The silent generator is specifically designed for mobile and rental applications. Easy to use and handle, it features a latest-generation engine with low emissions, for environmentally friendly energy.

### Control Panel

The control panel consists of:

- No. 1 CEE 32A 400V
- No. 1 CEE 16A 400V
- No. 2 CEE 16A 230V
- No. 1 Schuko 16A 230V
- Thermal Switch
- Magneto-thermal Switch
- DSE4510 Control Unit
  - Voltmeter, Frequency Meter, Ammeter
  - Generator Power Reading (kW, kV Ar, kV A & pf)
  - Hour Meter
  - Fuel Gauge
  - Overload Protection (kW & kV Ar)
  - Low Oil Pressure Protection
  - High Coolant Temperature Protection
  - Low Fuel Level Protection
  - Battery Charger Alternator Fault
  - Over-revving Protections
  - Oil Pressure and Engine Temperature Readings

Analog Fuel Level Gauge  
Emergency Stop Button  
Remote Start/Automatic Panel Connector  
On/Off Switch

## AVR Voltage Regulator

The AVR is essential To ensure optimal generator performance, it requires an electronic control system, an AVR, which ensures proper operation of the machine and the underlying electrical network.

The purpose of the AVR in a generator is to maintain a stable output. While its operation is very simple when powering resistive loads, it becomes more complex when powering predominantly inductive loads: the delayed, out-of-phase current counteracts the inductor magnetic field, causing a voltage drop at the alternator's output terminals. To compensate for this, the AVR automatically intervenes, increasing the excitation current until the output returns to its nominal value. If the load is capacitive, the current acts as a magnetizer for the inductor, causing an increase in the output voltage, and the AVR intervenes by reducing the excitation current.

### TECHNICAL CHARACTERISTICS

Voltage regulator: AVR  
Power supply: Diesel  
Engine: 4TNV98C-IYE STAGE V  
Starting: Electric  
Three-phase  
Continuous output: 24KW  
Continuous output: 30KVA  
Maximum output: 26KW  
Maximum output: 33KVA  
Voltage: 400V  
Frequency: 50Hz  
1500 rpm  
Tank capacity: 100 l  
Autonomy @ 75%: 15 h fixed rpm  
Sound pressure @ 7 m: 65 dBA  
Length (mm): 2670  
Width (mm): 960  
Height (mm): 1263  
Dry weight (kg): 1150

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## Technical Sheet

Phase	Three phase
Maximum power three phase (KW)	4.4
Continuous power three phase (KW)	24
Maximum power three phase (KVA)	33
Continuous power three phase (KVA)	30
Fuel	Diesel
Frequency (Hz)	50
Voltage (V)	400
Engine	

Emissions Regulations	Stage 5
Engine rpm (rpm)	1500
Starting system	Elettrico
Cooling	Water
Poles	2
Fuel tank capacity (L)	100
Running time (h)	8
Acoustic pressure	70 dB(A)
Length (mm)	2670
Width (mm)	960
Height (mm)	1263
Dry weight (Kg)	1150
Silenced	Yes
Super silenced	No
Voltage regulator	AVR
Engine manufacturer	Yanmar