



## Generator 45 KVA Silenced AVR Stage V

Reference: GE45KVA S-R

### 45 KVA Silent AVR Stage V Generator

The 45 KVA three-phase generator is equipped with a Stage V Yanmar diesel engine capable of delivering 45 KVA with an AVR voltage regulator.

The generator is equipped with an oversized Yanmar engine capable of delivering a continuous power of 45 KVA and a maximum power of 48.5 KVA. Thanks to the 100-liter fuel tank, the generator has up to 12 hours of operation.

The silenced generator was built with a high-performance frame to minimize sound pressure. The frame is constructed of steel plates in accordance with UNI S235JR standards, complete with rubber anti-vibration mounts.

The 45KVA generator is complete with doors that allow easy access for routine or extraordinary maintenance. To make this generator as quiet as possible, eco-friendly acoustic foam has been used. It is 100% recyclable, self-extinguishing, fireproof, washable, and complies with Class 1 fire reaction regulations, and is mechanically secured 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 power.

### AVR Voltage Regulator (AVR)

The AVR is essential for optimal generator operation. It requires an electronic control system, an AVR, to ensure proper operation of the machine and the underlying electrical network.

The purpose of the AVR in a generator is to maintain 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, reducing the excitation current.

### Technical characteristics of the 45KVA generator

Maximum three-phase power: 48.5 KVA  
Continuous three-phase power: 45 KVA  
Fuel: Diesel  
Voltage: 230/400 V  
Engine: Yanmar 4TNV98CT-IYE  
Starting: Electric  
Length: 2220 mm  
Width: 960 mm  
Height: 1263 mm

Weight: 960 kg

If you are looking for another product then you can consult other terrestrial generators in [our catalog](#).

Images and technical data are not binding.

## Technical Sheet

Phase	Three phase
Maximum power three phase (KW)	38.8
Continuous power three phase (KW)	36
Maximum power three phase (KVA)	48.5
Continuous power three phase (KVA)	45
Fuel	Diesel
Frequency (Hz)	50
Voltage (V)	230 / 400
Engine	Yanmar 4TNV98CT-IYE
Emissions Regulations	Stage 5
Engine rpm (rpm)	1500
Starting system	Elettrico
Cooling	Water
Fuel tank capacity (L)	100
Running time (h)	12
Acoustic pressure	65 dB(A) at 7 m
Length (mm)	2220
Width (mm)	960
Height (mm)	1263
Dry weight (Kg)	350
Silenced	Yes
Super silenced	Yes
Voltage regulator	AVR
Engine manufacturer	Yanmar