

## GSW45P

Referencia: GSW45P



## Description

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### Generating set equipment

The bedplate is made of steel profile complete with adequately dimensioned anti-vibration supports and welded support legs.

The plastic fuel tank includes a filler neck, an air inlet through a vent pipe and a low fuel level sensor. In addition, thanks to the oil drain pipe with cap, the oil drainage is easier to perform this task

The body is soundproof and consists of modular panels, covered with galvanized steel with anti-corrosion and adverse conditions treatment, duly fixed and sealed, in order to obtain a completely waterproof receptacle.

It has easy access to the generator set for maintenance purposes thanks to side access doors fixed by stainless steel hinges and perforated galvanized steel interior. It also includes removable panels with screw holes protected by a plastic cover. In addition, the control panel protection door is provided with a suitable window and lock.

It consists of an adequately protected and soundproofed side air intake opening and a roof exhaust vent, rain gutter protected by an appropriate grille.

Complete soundproofing is achieved thanks to the sound-absorbing material with acoustic insulation and the efficient residential silencer placed inside the bodywork.

### Engine equipment

It consists of a rotary pump type fuel system and a lubricating oil system that has a wet steel sump with filler and dipstick.

It has different filters such as:

- Fuel filter.
- Air filter.
- Oil filter.

The cooling system includes a radiator assembly and a system thermostatically controlled by a belt-driven coolant pump with a push-button vent.

## Alternator

It has a robust mechanical structure, which allows easy access to connections and components during checks and maintenance should they be necessary.

Thanks to the voltage regulation with DSR that controls the voltage range, any possible problems generated by unqualified personnel are avoided. The voltage accuracy is  $\pm 1\%$  in static condition with any power factor and with speed variation between 5% and 30% with reference to nominal speed.

It has a wiring / excitation system composed of a stator wound in  $2/3$ . This is intended to eliminate the triple harmonics (3rd, 9th, 15th ...) in the voltage wave and avoid problems in the supply of non-linear loads. The winding has a  $2/3$  design that avoids excessive neutral currents, which have been present in larger windings.

MAUX (standard): The MAUX MeccAlte auxiliary winding can withstand an overload of 300% of the rated current (maintaining the short-circuit current) for 20 seconds. In this way, the motor starting requirements are met.

Insulation is standard class H and impregnation is done with premium epoxy resins bonded by immersion and drip. High voltage parts are vacuum impregnated, so the insulation level is always very good.

## Stationary manual control panel

The manual control panel is group mounted and is complete with:

### Instrumentation

- Voltmeter (phase 1)
- Ammeter (phase 1)
- Hour meter

### Commands:

- Start / stop selector with key (glow plugs for glow plugs are also included).
- Emergency stop button installed on the hood.

#### **Protection with alarm:**

- Low fuel level
- Battery charger failure
- Low oil pressure
- High engine temperature
- Grounding

#### **Protections with shutdown:**

- Low fuel level
- Battery charger failure
- Low oil pressure
- High engine temperature
- Switch protection: 3 Pole
- Emergency stop button

## Technical sheet

Model	GSW45P
Motor brand	Perkins 1103A-33TG1
Length	2000 mm
Width	920 mm
Height	1310 mm
Weight	940 kg
Motor Power (KW)	43.20 / 40.80
Fuel	Diesel
Alternator brand	Mecc Alte
Ordering	43.20 / 40.80