

## MODEL : K45PS



Image provided for illustrative purposes only

Power Rating		
Standby power LTP	kVA	48,0
Prime power PRP	kVA	45,6

Main Features		
Frequency	Hz	50
Voltage	V	400/230V
Power factor	cos $\phi$	0,8
Phase and connection		3

Main Specifications		
Engine Make & Model	Perkins	1103A-33TG1
Speed Governor		Mechanical
Alternator Make & Model	Mecc Alte	ECP 32-3S/4 B
Fuel Tank (ltrs) / Autonomy @75% load (hrs)	68	8
Noise Level - dB(A)@7mt		66
Dimensions	L x W x H (mm)	2000x920x1310
Weight	Kg	945

### General Structure

Engine/alternator monoblock unit coupled and mounted via adequately sized, anti-vibration mountings to Welded Steel Profile Base Frame with welded or screwed support legs. Fuel tank incorporated, complete with Filler neck, air breather and minimum fuel level sensor.

Soundproof canopy made up of modular panels, realized with zinc coated steel, hot galvanized as treatment against corrosion and aggressive conditions, properly fixed and sealed allowing a full weatherproof enclosure. Easy access to the genset for maintenance purposes thanks to, Wide lateral access doors fixed by stainless steel hinges and provided with plastic lockable handles and internal perforated galvanized steel-sheet; detachable panels, with screws holes protected by rubber tap.

- Control panel protection door provided with suitable window and lockable handle.
  - Lateral air inlet opening properly protected and soundproofed.
- Exhaust air outlet from the roof, trough wet section protected by proper grid.
  - Single detachable lifting eye placed on the roof.
- Noise attenuation thanks to soundproofing material (rock wool)
  - Efficient residential silencer placed inside the canopy

## TECHNICAL DATA SHEET

Engine		
Brand		Perkins
Model		1103A-33TG1
Speed Governor		Mechanical
Max power PRP	kW	42,2
R.P.M.		1500
Cylinders		3 in line
Displacement	cm <sup>3</sup>	3300
Fuel consumption at 75% of load	l/h	8,2
Cooling System		Water
Aspiration		Turbocharged

ALTERNATOR		
Brand		Mecc Alte
Model		ECP 32-3S/4 B
Pole		4
Stator/rotator insulation		H
Protection level	IP	23

PHYSICAL CHARACTERISTICS		
Integrated fuel tank	LTR	68
Lead acid batteries		12V70AH
Dimensions	W x L x H (mm)	2000x920x1310
Weight	Kg	945

Noise Level dB(A) LWA		
Guaranteed Noise Level	dB(A) LWA	95
Noise Pressure Level	@ 7 mt	66

**MCP - Manual control panel**

Mounted on the genset and complete of: analogue instrumentation, control, protection of the generating set, protected through door with lockable handle.

**INSTRUMENTATION (ANALOGUE)**

- Voltmeter (1 phase)
- Ammeter (1 phase)
- Hours-counter

**COMMANDS**

- Start/stop selector switch with key (Glow plugs preheating function also included).
- Emergency stop button installed on canopy side.

**PROTECTION WITH ALARM**

- Low fuel level
- Battery charger failure
  - low oil pressure
- high engine temperature
  - Earth Fault.

**PROTECTIONS WITH SHUTDOWN**

- Low fuel level
- Battery charger failure
  - low oil pressure
- high engine temperature.
- Circuit breaker protection: III poles
  - Emergency stop button

**OTHERS**

- Panel protected through door with lockable handle.

**OUT PUT PANEL MCP**

Power cables connection to Circuit Breaker.

Socket kit Standard

Thermal protections

3P+N+T 400V 63A n 1

3P+N+T CEE 400V 32A n 1

2P+T CEE 230V 16A n 2

230V 16A SCHUKO n 1



**ACP - Automatic control panel**

Mounted on the genset, complete with digital control unit AC03 for monitoring, control and protection of the generating set, protected through door with lockable handle.

**COMMANDS AND OTHERS**

- Four operation modes: OFF - Manual starting - Automatic starting - Automatic test.
  - Push-button for forcing Mains contactor or Genset contactor.
- Push-buttons: start/stop, fault reset, up/down/page/enter selection.
  - Remote starting availability.
  - DC system disconnection switch.
    - Acoustic alarm.
  - Automatic battery charger.
  - RS232 Communication port.
- Settable PASSWORD for protection level.

**ALARM PROTECTION**

- Engine protection: low fuel level, low oil pressure, high engine temperature.
- Genset protection: under/over voltage, overload, under/over frequency, starting failure, under/over battery voltage

**SHUT DOWN PROTECTION**

- Engine protection: low fuel level, low oil pressure, high engine temperature,
- Genset protection: under/over voltage, overload, under/over battery voltage, battery charger failure.
  - Circuit breaker protection: III poles.
  - Earth Fault included in the control unit.

**OTHERS PROTECTION**

- Emergency stop button.
- Panel protected through door with lockable handle.

**OUTPUT PANEL ACP**

3P+N+T 400V 63A n 1



**LTS - LOAD TRANSFER SWITCH - Accessories ACP**

Nominal Current	A	90
Width (W)	mm	700
Height (H)	mm	500
Depth (D)	mm	290