

# MODEL : K165PO



Image provided for illustrative purposes only

Power Rating		
Standby power LTP	kVA	164,0
Prime power PRP	kVA	152,6

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

Main Specifications		
Engine Make & Model	Perkins	1106A-70TAG2
Speed Governor		Mechanical
Alternator Make & Model	Mecc Alte	ECP34-2L
Fuel Tank (ltrs) / Autonomy @75% load (hrs)	240	10
Noise Level - dB(A) @7mt		0
Dimensions	L x W x H (mm)	2600x1000x1743
Weight	Kg	1451

## General Structure

### BASE FRAME MADE OF WELDED STEEL PROFILE, COMPLETE WITH:

- Steel base frame with support legs
- Anti-vibration mountings properly sized
- Grounding point to connect all metal parts of the generating set

### FUEL TANK WITH THE FOLLOWING COMPONENT:

- Filler neck
- Air breather (ventilation pipe)
- Minimum fuel level sensor

### PROTECTIONS:

- Moving and rotating parts protection against accidental contacts.

### ENGINE COMPLETE WITH:

- Battery
- Liquids (no fuel)

### EXHAUST (Standard):

- Industrial silencer (loose)

## TECHNICAL DATA SHEET

Engine		
Brand		Perkins
Model		1106A-70TAG2
Speed Governor		Mechanical
Max power PRP	kW	136
R.P.M.		1500
Cylinders		6 in line
Displacement	cm <sup>3</sup>	7000
Fuel consumption at 75% of load	l/h	24,5
Cooling System		Water
Aspiration		Turbocharged

ALTERNATOR		
Brand		Mecc Alte
Model		ECP34-2L
Pole		4
Stator/rotator insulation		H
Protection level	IP	23

PHYSICAL CHARACTERISTICS		
Integrated fuel tank	LTR	240
Lead acid batteries		12V140AH
Dimensions	L x W x H (mm)	2600x1000x1743
Weight	Kg	1451

Noise Level dB(A) LWA		
Guaranteed Noise Level	dB(A) LWA	0
Noise Pressure Level	@ 7 mt	0

**MCP - Manual control panel**

Mounted on the genset and complete of: instrumentation, control, protection of the generating set.

**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

**PROTECTION WITH ALARM**

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

**OUT PUT PANEL MCP**

Power cables connection to Circuit Breaker.



### 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

Plinth row for connection from ACP to LTS panel.  
 Power cables connection to Circuit Breaker.



### LTS - LOAD TRANSFER SWITCH - Accessories ACP

Nominal Current	A	250
Width (W)	mm	600
Height (H)	mm	400
Depth (D)	mm	200