

# MODEL : KC1780PO



Image provided for illustrative purposes only

Power Rating		
Standby power LTP	kVA	1780,0
Prime power PRP	kVA	1700,0

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	4012-46TAG3A
Speed Governor		Electronic
Alternator Make & Model	Mecc Alte	ECO46-1.5S/4
Fuel Tank (ltrs) / Autonomy @75% load (hrs)	1000	4
Noise Level - dB(A)@7mt		n.a.
Dimensions	L x W x H (mm)	5004x2200x2610
Weight	Kg	11561

## General Structure

### BASE FRAME:

Base frame made of welded steel profiles, complete with anti-vibration mountings properly sized.

The baseframe has a grounding point to connect all metal parts of the generating set and it provides a high structural strength.

### ENGINE COMPLETE WITH:

- Liquids (no fuel)
- Manual oil Draining pump

### PROTECTIONS:

- Moving and rotating parts protection against accidental contacts

### LIFTING:

- Lifting points frame structure.

## TECHNICAL DATA SHEET

Engine		
Brand		Perkins
Model		4012-46TAG3A
Speed Governor		Electronic
Max power PRP	kW	1500
R.P.M.		1500
Cylinders		12 V
Displacement	cm <sup>3</sup>	45842
Fuel consumption at 75% of load	l/h	274,9
Cooling System		Water
Aspiration		Turbocharged aftercooled

ALTERNATOR		
Brand		Mecc Alte
Model		ECO46-1.5S/4
Pole		4
Stator/rotator insulation		H
Protection level	IP	21

PHYSICAL CHARACTERISTICS		
Integrated fuel tank	LTR	1000
Lead acid batteries		24V220Ah
Dimensions	L x W x H (mm)	5004x2200x2610
Weight	Kg	11561

Noise Level dB(A) LWA		
Guaranteed Noise Level	dB(A) LWA	n.a.
Noise Pressure Level	@ 7 mt	n.a.

**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.



**OUTPUT PANEL ACP**

External Terminal Board (ETB) Standard



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

Nominal Current	A	2500
Width (W)	mm	1000
Height (H)	mm	800
Depth (D)	mm	450