

# P4000 230V 50HZ #MCP

COMPACT, VERSATILE AND USER FRIENDLY



Low noise level, it is the ideal generator for use in residential areas or outside normal working hours. It's equipped with a reliable Diesel engine, first class components and complete instrumentation.

## Main Features

Frequency	Hz	50
Voltage	V	230
Power factor	cos $\phi$	0.9
Phase		1

## Power Rating

Emergency Standby Power ESP	kVA	3,57
Emergency Standby Power ESP	kW	3,21
Continuous power COP	kVA	3,24
Continuous power COP	kW	2,92

### Ratings definition (ISO-8528)

#### ESP - Emergency Standby Power:

It is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 h of operation shall not exceed 70 % of the ESP.

#### COP - Continuous Power:

It is defined as being the maximum power which a generating set is capable of delivering continuously for an unlimited number of hours, with the maintenance intervals and procedure being carried out as prescribed by the manufacturers.

### Engine specifications

Engine Brand	Yanmar	
Model	L70V	
[50Hz] Exhaust emission level	Stage V	
Engine cooling system	Air	
Displacement	cm <sup>3</sup>	320
Aspiration	Natural	
Operating Speed-Nominal	rpm	3000
Speed governor	Mechanical	
Fuel	Diesel	
Oil capacity	l	1.01
Starting system	Electric	



### Alternator Specifications

Type	Brushless	
Class	H	
IP protection	23	
Poles	2	
Frequency	Hz	50
Voltage tolerance	%	+5, - 10 (cosφ1)
Voltage regulation system	Capacitor	

### Dimensional data

Length	(L) mm	800
Width	(W) mm	525
Height	(H) mm	850
Dry weight	kg	132
Fuel tank capacity	l	18



### Autonomy

Fuel consumption at 75% of Load	l/h	1.18
Fuel consumption at 100% of Load	l/h	1.26
Running time at 75% of load	h	15.25
Running time at 100% of load	h	14.29



### Noise level

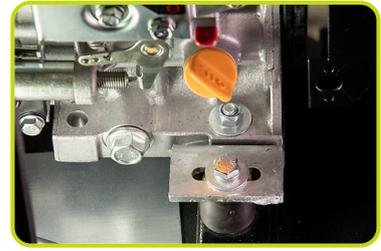
Guaranteed noise level (LWA)	dB(A)	96
Noise pressure level @ 7 m	dB(A)	68



## Genset equipment

### STEEL SUPPORTING FRAME:

- Sturdy Supporting Frame for moto-alternator and canopy.
- Anti-vibration mounting properly sized.



### FULLY BUNDED BASEFRAME:

- Base forcable by forklift.
- Integrated Fuel Tank.
- Fuel level sensor.



### EASY AND FAST MAINTENANCE SERVICE:

- Side door with lock for engine service and maintenance



### ENGINE COMPLETE WITH:

- Battery
- Liquids (No Fuel)
- Water temperature sensor
- Lube oil pressure sensor



### CANOPY:

- Modular type canopy
- Weatherproof enclosure made of galvanized sheet metal.
- Noise attenuation thanks to high quality soundproofing material.
- Efficient residential silencer placed inside the canopy
- Single lifting points for easy Handling.
- Fuel refiling point on the roof external for simple and rapid refueling operations (cap with key available as an accessory)



## GENSET CONTROL PANELS

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

### The control panel is equipped with:

- Emergency stop button
- CONNector as standard for RSS Remote Start Stop Wireless (accessories available)

### Arsilici MC005D Control unit:

- Display
- Led alarm D+ (positive dynamo)
- Led alarm fuel
- Led alarm oil
- Led temperature alarm
- Led Power Supply



### SOCKET TYPE

SCHUKO 230V 16A IP54	1
2P+T CEE 230V 16A IP44	1
2P+T CEE 230V 32A IP44	1

## SUPPLEMENTS CONTROL (Available when ordered)

### PHS – Coolant pre-heating system

The coolant preheating system allow to mainain the engine at a temperature that ensures a quick start when required. Immersion heater 400W.



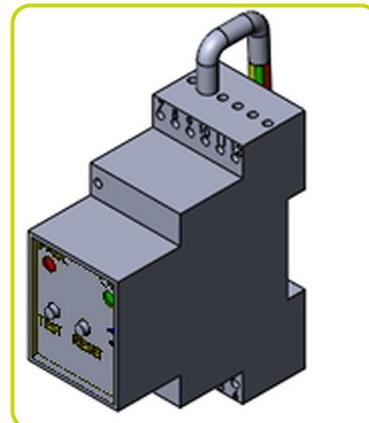
### DPP – Differential Protection

Differential protection is device used to protect installations against indirect contact (not compatible with IPP).



### IPP - Isometer Protection

Isometer Protection monitors the ungrounded system between an active phase conductor and earth (not compatible with DPP).



## ACCESSORIES CONTROL PANEL

### AMF - AUTOMATIC CONTROL PANEL

This accessory permits to control all the functions about a generator. It's built to monitor mono phase or three phase with neutral systems in alternate current; it permits to transfer the user's load on generator when the mains voltage is faulty. Conversely, as soon as AMF system detects the power grid, it stops the generator.

#### Equipment:

- Control and protection unit (DGT)
- Phase detector
- Contactor with interblock
- Battery charged
- Acoustic alarm
- 8 meters control wiring (with CONNector)
- External start stop capability
- Emergency stop button

#### Instrumentation (DGT):

- Mains voltage
- Genset voltage
- Frequency meter
- Hour meter

#### Alarm & Shutdowns:

- Generators voltage out of limits
- Battery Voltage out of limits
- Low oil Pressure
- Fail to start
- External shutdown



### RSS - REMOTE START / STOP

RSS Remote start/stop wireless with CONNector (max Distance 90m)



## ACCESSORIES

FCK - Fuel cap with key



STR - Site Trailer

