P4000 230V 50Hz #MCP

Main Features		
Frequency	Hz	50
Voltage	V	230
Power factor	cos ϕ	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 - Continuos 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.

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Engine specifications		
Engine Brand		Yanmar
Model		L70V
[50Hz] Exhaust emission level		Stage V
Engine cooling system		Air
Displacement	cm³	320
Aspiration		Natural
Operating Speed-Nominal	rpm	3000
Speed governor		Mechanical
Fuel		Diesel
Oil capacity	l	1.01
Starting system		Electric

Alternator Specifications		
Alternator		NSM
Type		Brushless
Class		H
IP protection		23
Poles		2
Frequency	Hz	50
Voltage	V	230
Voltage regulation system		Capacitor
Voltage tolerance	%	+5, - 10 (cosϕ1)

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

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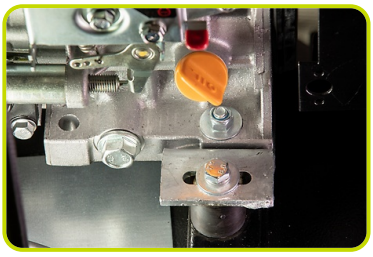
Genset equipment

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 MAINTENACE 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)

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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:

- Start selector switch with key: OFF - ON - START
- CONNector as standard for RSS Remote Start Stop Wireless (accessories available not compatible with AMF)
- CONNector as standard for AMF Automatic Main Failure (accessories available not compatible with RSS)

INSTRUMENTATION (ANALOGIC)
- Voltmeter

PROTECTIONS
- Circuit braker
- Thermal protection
- Engine protection unit: High engine temperature, Low oil pressure, Low fuel level, Battery charger alternator failure.

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)

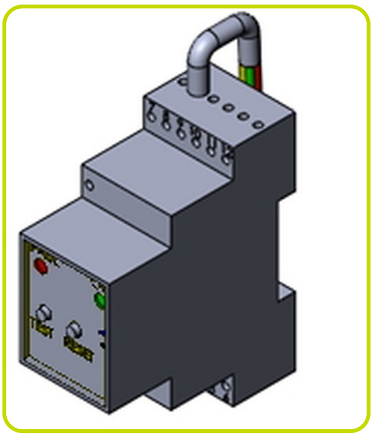
PHS– Coolant pre-heating system

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).

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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
- Acustic 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)

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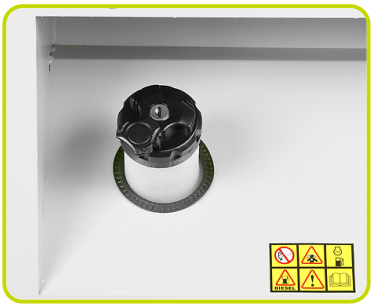
FCK - Fuel cap with key



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