

SUPER SOUNDPROOFED DIESEL GENSET

PAL SERIES

- ☐ **Rugged and economic design**
- ☐ **Lombardini engine**
- ☐ **supersilent**
- ☐ **emergency use available**



MODEL	PAL-6.5	PAL-10	PAL-15
Frequency (Hz)	50	50	50
Voltage (V)	380/220v	380/220v	380/220v
Continuous power (kVA)	6.1	10.4	13.5
Emergency power (kVA)	6.7	11.4	14.3
Engine model	4LD820/L	9LD625/2	5LD825/2
No. of cylinders	1	2	2
Displacement (cc)	817	1.247	1.650
R.P.M.	1.500	1.500	1.500
Engine continuous power (kW)	6.5	11.0	14.3
Cooling	Air	Air	Air
Alternator manufacturer	MECC-ALTE	MECC-ALTE	MECC-ALTE
KVA Alternator	6.5	11.0	13.5
dB at 7m	70	70	70
Fuel tank capacity	11.5	10	29
Dimensions (mm) approx.	1500 x 800 x 1175	1500 x 800 x 1175	1700 x 800 x 1750
Weight (kg) approx.	375	480	600

Please consult us for other voltages and frequencies

STANDARD EQUIPMENT

PAL SERIES

Mounting Arrangement: Set of engine and alternator coupled directly by means of a flexible disk, making a monoblock and mounted on the base frame with anti vibration mountings in a Super soundproof cabin. The modular structure base frame (easy assembly) is made of pressure bent steel profiles and sound attenuating elements with a a rock-wool layer, which complies with the prevailing regulations.

Includes hot air extraction fan for the engine and alternator cooling. Residential type silencer included.

Lombardini Engine: Four stroke, direct injection and air cooled Diesel engine. Equipped with fuel tank. Stop solenoid included.

Alternator: Mecc-Alte, electronic voltage regulation (AVR), four poles, IP 21 protection and class H insulation.

Control Panel: The generating sets can be supplied with MANUAL or AUTOMATIC control panel.

- **Manual Control Panel:** Control Panel for measure and protection equipped with:
 - CMM 10 control unit which includes the following functions and components:
 - Measure and visualitation of the following parameters (instant values) by means of a display: Three-phase voltage, three-phase current, frequency.
 - Mechanical hour counter.
 - LED indicators: Activated system, battery charger failure, low oil pressure, high soundproof cabin temperature, overspeed and generator failure.
 - Alarms: Low oil pressure, high soundproof cabin temperature, overspeed, generator failure.
 - Start key and stop button.
 - Sound alarm
 - Emergency push button.
 - Four pole circuit breaker.
 - One single-phase socket.
 - One three-phase socket.
- **Automatic Control Panel:** Metal cabinet to be mounted on the wall, separate from the generating set, with following components:
 - CGEA 10 control unit for control and protection of the generating set which includes:
 - The condition of the generating set, measurements, alarm messages, etc are shown on the LCD display. All messages can be deleted with the reset button.
 - Phase detector and a 2 A battery charger included.
 - Measurements: Generator frequency, voltage and current of set lines, voltages of mains lines, working hour counter, battery voltage.
 - Alarms: Low oil pressure, high soundproof cabin temperature, battery charger alternator failure, overspeed, generator voltage out of margin, overcurrent of the generator, frequency out of margin, start failure.
 - Adjusting parameters (available through an access code) : Voltage margins, maximum current, relationship of current transformers, frequency margins, maximum duration of the start attempts, cooling time, time for switching off the generating set after mains recovery, maximum delay for stopping order.
 - Functioning mode: Automatic, manual, test and disconnected.
 - Emergency push button
 - Sound alarm
 - Contactors included

SOUNDPROOFED DIESEL GENSET

SPR SERIES

- ❑ **Generating sets for emergency use.**
- ❑ **Economic design**
- ❑ **2 hours maximum continuous use.**



MODEL	SPR-7	SPR-10	SPR-12,5	SPR-20
Engine make	Ruggerini	Ruggerini	Ruggerini	Ruggerini
Engine model	RF-90	MD-150	MD-190	RD-280
KVA Emergency	6.8	9.4	11.6	20.0
Alternator kVA	7.2	11.0	13.8	22.0
Voltage (V)	380 / 220	380 / 220	380 / 220	380 / 220
dB (A) at 7 m	75	75	75	75
Fuel Tank capacity (L)	4.3	4.0	4.0	10.5
Dimensions (mm) ca..	1200X700X1010	1200X700X1010	1200X700X1010	1500X800X1085
Weight (kg) approx.	340	350	350	460

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Engine model	RF-90	MD-150	MD-190	RD-280
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Alternator kVA	7.2	11.0	13.8	22.0
Voltage (V)	380 / 220	380 / 220	380 / 220	380 / 220
dB (A) at 7 m	75	75	75	75
Fuel Tank capacity (L)	4.3	4.0	4.0	10.5
Dimensions (mm) ca..	1200X700X1010	1200X700X1010	1200X700X1010	1500X800X1085
Weight (kg) approx.	340	350	350	460

Mounting Arrangement: Set of engine and alternator coupled directly by means of a flexible disk, making a monoblock and mounted on the base frame with anti vibration mountings in soundproof cabin. The modular structure base frame (easy assembly) is made of pressure bent steel profiles and sound attenuating elements with a a rock-wool layer, which complies with the prevailing regulations.

Includes hot air extraction fan for the engine and alternator cooling. Residential type silencer included.

Ruggerini Engine: Four stroke, direct injection and air cooled Diesel engine. Equipped with fuel tank. Stop solenoid included.

Alternator: Mecc-Alte with brushes at 50 Hz, compound regulation, two poles, IP 21 protection degree and class H insulation.

Control Panel: The generating sets can be supplied with MANUAL or AUTOMATIC control panel

Manual Control Panel:

Control Panel for measure and protection equipped with:

- ☐ CMM 10 control unit which includes the following functions and components:
 - Measure and visualitation of the following parameters (instant values) by means of a display: Three-phase voltage, three-phase current, frequency.
 - Mechanical hour counter.
 - LED indicators: Activated system, battery charger failure, low oil pressure, high soundproof cabin temperature, overspeed and generator failure.
 - Alarms: Low oil pressure, high soundproof cabin temperature, overspeed, generator failure.
 - Start key and stop button.
 - Sound alarm
- ☐ Emergency push button.
- ☐ Four pole circuit breaker.
- ☐ One single-phase socket.
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Automatic Control Panel:

Metal cabinet to be mounted on the wall, separate from the generating set, with following components:

- ☐ CGEA 10 control unit for control and protection of the generating set which includes:
 - The condition of the generating set, measurements, alarm messages, etc are shown on the LCD display. All messages can be deleted with the reset button.
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 - Alarms: Low oil pressure, high soundproof cabin temperature, battery charger alternator failure, overspeed, generator voltage out of margin, overcurrent of the generator, frequency out of margin, start failure.
 - Adjusting parameters (available through an access code) : Voltage margins, maximum current, relationship of current transformers, frequency margins, maximum duration of the start attempts, cooling time, time for switching off the genset after mains recovery, maximum delay for stopping order.
 - Operating mode: Auto, manual, test and disconnect
- ☐ Emergency push button
- ☐ Sound alarm
- ☐ Contactors included

