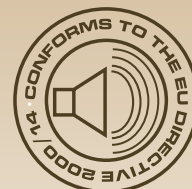


SOUND PROOF
OIL COOLED

SERIES PBL₂₀₋₄₀

GBL20-40: A source of continuous power

This range has been designed to meet particular market needs. The most suitable application is on construction sites, where durability and reliability are required to supply constant power to applications such as lighting, cranes, concrete mixers and conveyor belts. With low noise emissions, they are also suitable for open air activities, such as shows or sporting events.



Reliability

Engine and alternator ensure a constant, high quality power supply for the most demanding applications.

Easier to use

New design gives easy access for maintenance and repair work.

Large autonomy

Extended fuel capacity means continuous performance.

Silent

High efficiency in reducing noise to the minimum.

MODEL		PBL20	PBL30	PBL40
PRIME POWER	kVA/kWe	18,5/14,8	26,0/20,8	37,5/30,0
EMERGENCY POWER	kVA/kWe	19,6/15,7	27,4/21,9	39,4/31,5
ENGINE	DEUTZ	F3M 1011 F	F4M 1011 F	BF4M 1011 F
AUTONOMY (APPROX.)(75% LOAD)	h	15,3	11,2	7,6
SOUND POWER LEVEL	LWA	96	97	96
SOUND PRESSURE AT 7 M	dB(A)	71	72	71
DIMENSIONS (LxWxH)	mm	2000x920x1147	2000x920x1147	2000x920x1147
WEIGHT	kg	819	906	925

PRIME POWER (PRP) (ISO 3046) RATING: PERMISSIBLE POWER OUTPUT WITH NO TIME LIMITATION, PLUS 5% EXTRA POWER FOR GOVERNING PURPOSES

EMERGENCY POWER (LTP) (ISO 3046) RATING: MAXIMUM POWER WHICH CAN BE DELIVERED FOR UP TO 500 HOURS PER YEAR OF WHICH A MAXIMUM OF 300 HOURS IS CONTINUOUS RUNNING

GBL40 COMPLY WITH TA LUFT-4000 REGULATION

PowerSources

... WHERE THE POWER COMES FROM ...

SOUND PROOF OIL COOLED

SERIES PBL 20-40

Facility of handling

- Reinforced steel base frame with bolted support legs to facilitate installation and fork truck transport
- A central lifting bridge (t) allows the unit to be easily lifted by a crane.



Large autonomy

- High capacity fuel tank (t) for longer work without fuel refilling.

Silent

- Soundproof canopy built in high quality steel and sound attenuating material reduces noise emissions to a minimum.
- Highly efficient silencer reduces noise emissions for sensitive locations operating.
- Anti-vibration isolators ensure a vibration free standing of the generating set
- Certification of approval in compliance with annex 8 of directive 2000/14/EC relating to environmental noise emission by equipment for outdoor use.

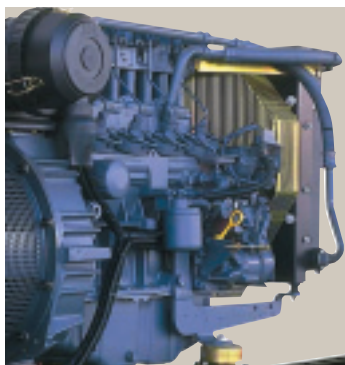


Easier use

- External fuel filling (t) for easier supply of fuel
- They require no special foundations, so that the units can be installed anywhere

Reliability

- In oil cooled engines (t), the single fluid for both cooling and lubrication avoids corrosion and cavitations
- Deutz engines extremely high load acceptance capacity ensures instant electricity supply
- They respond quickly to load fluctuations. In addition, the application will not suffer from frequency deviations
- Highly efficient alternators
- Constant supply guaranteed by the electronic voltage regulator under any generator operating condition
- Rated capacity battery for immediate engine start.



Security

- The engine protection (stop solenoid) guarantees the shutdown of the machine when an engine failure occurs
- The exhaust gas emissions meet the most restrictive regulations
- Access doors are equipped with lockable handles (t).

Easier maintenance

- Optical fuel level (t) for an easier fuel check
- Engine service points are accessible from one side. The maintenance is easier through large doors
- An oil drain pipe with cap is included



The producer reserves the right to introduce changes to models and features without prior notice. Models, version and associated products characteristics can vary according to the markets.

CERTIFICATION

Production sites according to ISO 9001 directions



CONFORMS
TO THE EUROPEAN
SAFETY RULES

SERVICE

After sales service world wide.
12 months warranty.
All the gensets are completely
tested before dispatch.

**TECHNICAL
FEATURES**
SERIES

PSA₇₋₁₀ - PBA₇₋₁₃
PSA₂₀₋₆₀ - PBL/PSL₂₀₋₄₀

		LOMBARDINI		DEUTZ								
		AIR COOLED		AIR COOLED						OIL COOLED		
		PBA/PSA7	PBA/PSA10	PBA13	PSA20	PSA25	PSA30	PSA40	PSA60	PBL/PSL20	PBL/PSL30	PBL/PSL40
GEN SET												
Prime power [PRP]	kVA/kWe	6.1/4.9	10.4/8.3	11.5/9.2	17.8/14.2	23.6/18.9	28.7/23.0	39.9/31.9	59.9/47.9	18.5/14.8	26.0/20.8	37.5/30.0
Emergency power [LTP]	kVA/kWe	6.8/5.4	11.4/9.1	12.5/10.0	18.9/15.1	25.2/20.2	29.2/23.4	41.0/32.8	61.0/48.8	19.6/15.7	27.4/21.9	39.4/31.5
Frequency	Hz	50	50	50	50	50	50	50	50	50	50	50
Three Phases Voltage	V	400/230	400/230	400/230	400/230	400/230	400/230	400/230	400/230	400/230	400/230	400/230
Power factor	Cos phi	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8
ENGINE												
Brand		LOMBARDINI		DEUTZ								
Model		4LD 820/L	9LD 625/2	F2L 1011 F	F3L 1011 F	F4L 1011 F	F3L 912 GEN	F4L 912 GEN	F6L 912 GEN	F3M 1011 F	F4M 1011 F	BF4M 1011F
Prime power	kWm	6	9,8	11	17	22,5	27	36,5	54	17,6	24,5	34,3
Speed	rpm	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
Intake		NATURAL										TURBO
Cooling		AIR								OIL		
Injection		DIRECT										
Cylinders		1	2 LINE	2 LINE	3 LINE	4 LINE	3 LINE	4 LINE	6 LINE	3 LINE	4 LINE	4 LINE
Displacement	cm³	817	1248	1366	2049	2732	2827	3770	5655	2185	2914	2912
Bore/Stroke	mm	102/100	95/88	91/105	91/105	91/105	100/120	100/120	100/120	91/112	91/112	91/112
Compression ratio		17.0:1	17.5:1	18.5:1	18.5:1	18.5:1	20:1	20:1	20:1	19:1	19:1	17.5:1
Standard governor		MECHANICAL										
Governing control quality (mech) (1)		G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2
Exhaust gases temperature (2)	°C	-	-	410	440	445	460	455	460	490	480	545
Exhaust gases flow	m³/h	-	-	157	236	313	264	353	527	250	334	501
Max. exhaust back pressure	mbar	-	-	30	30	30	30	30	30	30	30	30
Cooling air flow	m³/h	624 (4)	1578 (5)	510	788	1057	3500	2900	5600	1730	1730	2160
Max. allowed intake dep.	mbar	-	-	20	20	20	20	20	20	20	20	20
Combustion air flow	m³/h	53.4 (4)	112.2 (5)	55	83	111	108	144	216	88	118	177
LUBRICATION SYSTEM												
Oil consumption (% of fuel cons.)	%	MAX. 0.3 %					MAX. 0.5 %			MAX. 0.3 %		MAX. 0.5 %
Lubricating oil capacity (3)	l	2,6	2,8	6	5,5	10	7	8	10	5,5	10	10
Minimum oil pressure	bar	1	1,5	2,1	2,1	2,1	1	1	1	2,1	2,1	2,1
FUEL CONSUMPTION												
75% load	l/h	-	-	2,3	3,6	4,5	5,2	6,9	10,4	3,6	4,9	7,2
100% load	l/h	1,9	3,0	3,0	4,6	5,9	8,2	8,9	13,5	4,7	6,4	9
ELECTRIC SYSTEM												
Voltage	V	12	12	12	12	12	12	12	12	12	12	12
Type		NEG. TO GND.										
Battery (ACP)	Ah	55	55	70	70	70	95	95	95	70	70	70
Starting motor	kW	-	-	2,3	2,3	2,3	3,1	3,1	3,1	3,1	3,1	3,1
ALTERNATOR												
Brand		MECC ALTE										
Model		ECO 3 1S	ECO 3 1L	ECO 3 2L	ECO 28 1L	ECO 28 2L	ECO 28 VL	ECO 32 3S	ECO 32 2L	ECO 28 1L	ECO 28 VL	ECO 32 3S
Nº of poles		4	4	4	4	4	4	4	4	4	4	4
Efficiency at 3/4	%	82	86	86.5	84,7	84,8	85.0	87.8	89.0	84,7	85.0	87,8
Power at 40º C	kVA/kWe	6.5/5.2	11/8.8	14/11	20/16	25/20	30/24	40/32	60/48	20/16	30/24	40/32
Nº of wires		6	6	6	12	12	12	12	12	12	12	12
Insulation		CLASS H										
Protection		IP 23	IP 23	IP 23	IP 23	IP 23	IP 23	IP 21	IP 21	IP 23	IP 23	IP 21
Regulation		ELECTRONIC (±1.5% WITH ANY POWER FACTOR AND SPEED VARIATIONS BETWEEN -5% AND +30%)										

(1) according to ISO8528

(2) full load and 25°C

(3) sump, including filters

(4) at 2600 rpm

(5) at 3000 rpm

For other voltages, please request to factory

OPTIONS
SERIES AIR COOLED - OIL COOLED

	LOMBARDINI		DEUTZ							
	AIR COOLED		AIR COOLED				OIL COOLED			
	PBA7-10	PSA7-10	PBA13	PSA20-25	PSA30	PSA40-60	PBL20-30	PBL40	PSL20-30	PSL40
GEN SET										
Battery isolation switch	-	X	-	X	X	X	-	-	X	X
Galvanized skid base frame with integrated drip tray and fork lift channels (only soundproof versions)	-	-	-	-	-	-	-	-	X	X
Leak proof tray (only for soundproof versions)	-	-	-	-	-	X	-	-	-	-
Site trailer (only for soundproof versions)	-	-	-	-	-	X	X	X	X	X
Road trailer-rigid bar (only for soundproof versions)	-	-	-	-	-	X	X	X	X	X
Sockets kit (only soundproof versions)	-	-	-	-	-	X	S	S	X	X
Rental kit (battery switch, socket panel according to size, Fuel filter with water separator and drain, earth rod with cable and three way fuel valve for connection to external tank)	-	-	-	-	-	-	-	-	X	X
ENGINE										
Engine electronic governor	-	-	-	X	X	X	X	X	X	X
Coolant pre-heating system (for automatic start)	-	X	-	X	X	X	X	X	X	X
Low temperature engine starting kit	-	-	-	X	X	X	-	-	X	X
Oil pressure indicator	-	-	-	X	X	X	-	-	S	S
Manual oil drain pump (standard on soundproof versions)	-	-	-	X	X	X	-	-	X	X
Residential silencer (standard on soundproof versions)	-	-	-	X	X	X	-	-	X	X
FUEL SYSTEM										
Extended fuel tank capacity	-	-	-	X	X	X	-	-	X	X
Automatic fuel transfer pump	-	-	-	X	X	X	-	-	X	X
ALTERNATOR (MECC ALTE)										
IP 23 protected alternator	S	S	S	S	S	X	S	X	S	X
Tropicalized alternator	-	X	-	X	X	X	X	X	X	X
Anti-condensation heater	-	X	-	X	X	X	X	X	X	X
Alternator parallel kit (with mains)	-	-	-	X	X	X	-	-	X	X
Alternator parallel kit (with other alternator)	-	-	-	X	X	X	-	-	X	X
Stamford alternator variant	-	-	-	X	X	X	-	-	X	X
OTHER OPTIONS										
Manual Control Panel with analogue instrumentation	UNDER DEVELOPMENT DURING 2003									
Single phase version	-	-	-	X	X	X	-	-	X	X
Load Transfer Switch Panel (LTS) for ACP versions	-	X	-	X	X	X	X	X	X	X
Remote start by external signal	-	-	-	X	X	X	-	-	X	X
Free voltage terminals for remote indications (max 3)	-	-	-	X	X	X	-	-	X	X
Connection kit for communication via Modem / GSM (only for automatic versions)	-	-	-	X	X	X	-	-	X	X
Timer (programmable clock)	-	-	-	X	X	X	-	-	X	X

S : Standard
 X : Optional
 - : Not available