









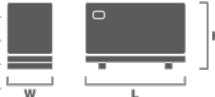
SMART RANGE

GENSET 25 kVA BAUDOIN / GRUPEL

1. MAIN FEATURES

T	Three-phase		Diesel
	Baudouin / 4M06G4D0/S		Grupel / 184GB23
	Grupel / G545	Hz	50 Hz
	1500 r.p.m.	V	400 V
cos φ	0.8		40 A
Standby Power(ESP)		26 kVA	21 kW
Prime Power (PRP)		24 kVA	19 kW
Continuous Power(COP)		-	-

SOUNDPROOF

Length (L)	1970 mm	
Height (H)	1120 mm	
Width (W)	825 mm	
Weight	716 kg	
Fuel tank daily capacity	55 L	
Acoustic pressure level @ 1m		79 ± 2 dB(A)
Acoustic pressure level @ 7m		71 ± 2 dB(A)

2. ROOM INSTALLATION

EXHAUST SYSTEM	50 Hz		
	COP	PRP	ESP
Exhaust gas temperature (°C)	-	-	700
Exhaust gas flow (m³/min)	-	4.88	5.32
Evacuated heat (kW)	-	-	-
Maximum back pressure (kPa)		8	
Exhaust silencer attenuation (dB)		18-25	
Output diameter (mm)		65	

VENTILATION SYSTEMS	50 Hz		
	COP	PRP	ESP
Combustion air flow (m³/min)	-	1.44	1.44
Cooling airflow (m³/min)		48	
Maximum load losses (Pa)		120	
Alternator cooling air flow (m³/min)		5.76	

RADIATION	50 Hz		
	COP	PRP	ESP
Engine (kW)	-	-	-
Alternator (kW)	2.46	2.46	2.6



3. ENGINE SPECIFICATIONS

GENERAL SPECIFICATIONS	50Hz
Model	4M06G4D0/S
Emissions (UE/USEPA)	Not applicable / Not applicable
Performance grade	G2
Operating method	4 stroke
Fuel type	Diesel
Refrigeration system	Closed water circuit / antifreeze
Aspiration system	Natural
Injection system	Direct
No. and Cylinder arrangement	4 In-line
Displacement (L)	2.3
Cylinder bore (mm)	89
Cylinder stroke (mm)	92
Compression ratio	17,5:1
Regulation	Electronic
Rotation speed (r.p.m.)	1500
Piston speed (m/s)	4.6
Gross power COP (kWm)	-
Gross power PRP (kWm)	23
Gross power ESP (kWm)	25
Fan Power (kWm)	- / 1 / 1
Net Power COP (kWm)	-
Net Power PRP (kWm)	21.7
Net Power ESP (kWm)	23.7
BMEP COP (kPa)	-
BMEP PRP (kPa)	800
BMEP ESP (kPa)	869



CONSUMPTION	50 Hz	
Fuel consumption	l/h	g/kWh
ESP	7.1	238.9
PRP	6.1	224.2
COP	-	-
75%	4.5	218.5
50%	3.2	230.7
Oil consumption	< 0.4% of fuel consumption	

REFERENCE CONDITIONS	
Temperature (°C)	25
Atmospheric pressure (kPa)	100

CAPACITY (°C)	
Coolant (L)	16
Oil (L)	11.5

STARTING SYSTEM	
Voltage (V)	12
Power (kW)	3
Battery (Ah)	62

4. ALTERNATOR SPECIFICATIONS

GENERAL SPECIFICATIONS	
Model	184GB23
Phases No.	Three-phase
Protection	IP23
Insulation	H
Temperature rise	H
R.F.I. telephone interference	THF < 2%
R.F.I. Suppression	BS EN 61000-6-2 /6-4,VDE 0875G, VDE 0875N
Coupling	Flexible disks
Support	Single bearing



Wave form distortion with no load	< 1,5%
Wave form distortion with balanced linear load	< 5%
Winding Leads	12
Excitation (standard/optional)	Autoexcitado / -
AVR Model (standard/optional)	SX460 / -
Voltage Regulation (standard/optional)	± 1 % / -
Icc (standard/optional)	- / -

PF (cos Ø)	Phase	Voltage (V)	Power PRP/ESP (kVA)	Efficiency PRP/ESP (%)	Xd	X'd	X''d
0.8	Three-phase	400	25 / 27.5	87.7 / 88.2	1.69	0.175	0.12



5. CONTROL PANEL



GENSET	Grupel G545
Voltage (F-F / F-N)	● / ●
Current intensity	●
Frequency	●
RMS Values	●
Generator phase sequence	●
Generator earth current [a]	○
No. of registered events	400
Real time clock	●
PIN Protection	●
kWh, kVAR, kVAh, kVARh, cos Ø	●
Synchroscope [i]	○
No. of available outputs [b]	4
Indication of alarms on LCD	●
Hours of engine operation	●
Total no. of LED indicators	15
No. of LED alarms	4
Sound signalling alarms	-
Schedule	●
Fuel level	●

ELECTRICAL GRID	Grupel G545
Voltage (F-F / F-N)	● / ●
Current [a]	○
Frequency	●
kVA, kW, cos Ø [a]	○
Inversion control between main-group	●

PROTECTIONS AND ALARMS	Grupel G545
High / low battery voltage	A
Failure in battery charge alternator	A
Failure to stop	A/S
Failure to start	A/S
Low fuel level	A/S
Overload	A/S
Earth leakage	A/S
Asymmetry between phases	A/S
Maintenance	A/S
High / Low generator frequency	A/S
Engine overspeed	A/S
Engine underspeed	A/S
Generator overvoltage	A/S
Generator undervoltage	A/S
ECU Alert (if applicable)	A/S
Low oil pressure	A/S
Low level of radiator water [f]	A/S
Engine high temperature	A/S
Fuel leakage/ theft	A

