

KOEL GREEN

BIO GAS BASED GENSETS

BIO-GAS

KOEL
green smile 
Efficiency In Conservation



100% Green Power
From 100% Bio-Gas
Single & Three Phase

KOEL
GREEN 

EFFICIENCY. INTEGRATED

Technical Specification

GENSET							
Prime Rating at rated rpm (as per ISO8528)1	kVA	4	12.5	25	30	50	125
	kW	3.2	10	20	24	40	100
Genset Model		KCC-B-4AS	KGB-20WS	KGB-25WS	KGB-30WS	KGB-50WS	KGB-125WS
Frequency	Hz	50	50	50	50	50	50
Power factor	lagging	0.8	0.8	0.8	0.8	0.8	0.8
Voltage	V	230	230(1Ø) & 415(3Ø)				
Governing class (As per ISO 8528 Part-V)		G2	G2	G2	G2	G2	G2
Noise level (with canopy)	dBA	< 86	< 75	< 75	< 75	< 75	< 75
Weight of genset with canopy (approx..)^	Dry	Kg	145	920	1250	1520	2440
	Wet	Kg	175	970	1310	1580	2520
Overall dimensions of genset	Length	mm	1045	2055	2540	3350	4340
	Width*	mm	550	950	1190	1190	1340
	Height**	mm	735	1220	1350	1650	1885
Electrical Battery starting voltage	Volts-DC	12	12	12	12	12	24
ENGINE							
Rated output (Prime Continuous rating as per ISO 8528-1)	KW	4.0	12.5	27.9	30.9	45.6	114.7
	HP	5.5	17	38	42	62	156
No. of cylinder	Number	1	2	3	4	6	6
Cubic capacity	Ltrs	0.389	2.08	3.12	4.16	6.48	8.86
Bore x Stroke	mm	88 X 64	105 x 120	100 x 120	105 x 120	105 x 125	118 x 135
Rated Speed	RPM	3000	1500	1500	1500	1500	1500
Aspiration	NA/TC/TA	NA	NA	NA	NA	NA	TA
Lube Oil change period***	Hrs	100	250	250	250	250	250
Lube Oil Sump Capacity	Ltrs	1.1	5.5	8	10	13.5	27
Coolant Capacity	Ltrs	NA	9	12.5	18	38	30

Note

- Biogas shall have Methane more than 65%
- Genset Power output is depend on Methane (CH₄)% in Biogas and varies with variation of Methane %
- Maximum allowed H₂S (V/V) is 200 PPM
- Biogas shall be free from Moisture
- Pressure required at inlet is 100 mmWC
- All canopy dimensions have tolerance of ± 50 mm.
- Prime Power Rating is the maximum power available continuously for a variable electrical load for unlimited number of hours per year under standard operating conditions.
- Genset ratings are as per ISO 8528.
- Single phase genset option available up to 30 kVA, for special requirement contact marketing.
- *Width of genset considered without base plate lifting hook
- ** Height of DG considered without silencer
- ***First oil change at 50 hrs.
- For the site conditions other than standard operating conditions, consult KOEL for available prime power.
- ^Genset weight tolerance +50 kg
- For Installation guidelines - Please refer KOEL - Genset Manual

Bio-Gas Based Genset's Salient Features

■ Customized Product Range :

- Ready to use gensets.
- Gensets work on Bio-Gas.
- Synchronization of multiple sets for parallel operations.

■ Smart Aesthetics :

- State of the Art Design.
- Compact in size, smaller footprint saving money on space.

■ Environment Friendly :

The power to save environment and the earth : Gensets operate on 100% Bio-Gas.

■ Highest Reliability :

- Utmost reliability ensuring continuous power for smooth operation.
- Safety for low lube oil pressure.
- Suitable for continuous operation.
- State-of-the-art technology.

■ Maintenance friendly design, ease of operation :

- Ready to use design.
- Easy serviceability for routine maintenance, replacement, overhaul.
- Easy availability of spare parts & service through country wide network of authorised service dealers.

- Smart Genset Monitor Control (GMC) for closely monitoring the engine, genset & safety system.
- Annual maintenance contract through service dealers.
- PAN India single point AMC.

■ Unmatched Performance :

- Lower operating cost.
- Low noise & vibration levels.
- K-cool super plus for longer life.

7 Easy steps for a happy Genset Ownership

- Insist on a load-study
- Select the Genset rating as per the load-study and with sufficient margin for future load expansion
- Apply site-selection guidelines carefully
- Insist on installation in line with KOEL Green guidelines
- Ensure adequate size and proper connection of cables
- Understand the Genset operation & maintenance procedures during commissioning
- Follow routine maintenance protocols through authorized KOEL Green service dealers

KIRLOSKAR OIL ENGINES LIMITED

Laxmanrao Kirloskar Road, Khadki,
Pune 411 003 INDIA.

www.koelgreen.com

