

15 - 30 kVA



EFFICIENCY HAS A NEW NAME. **KOEL GREEN.**

EFFICIENT
PRODUCTS



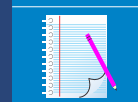
EFFICIENT
SERVICE



EFFICIENT
DELIVERIES



EFFICIENT
SOLUTIONS



EFFICIENT
NETWORK



EFFICIENT
24X7 CARE



- INDIA'S **#1** GENSET BRAND
- 15 - 5200 kVA

**KOEL
GREEN**
BY
KIRLOSKAR
EFFICIENCY. INTEGRATED

15 - 30 kVA

Prime Rating at rated rpm (as per ISO8528) ¹	kVA	15	20	25	30	25	30	
	kW	12	16	20	24	20	24	
Genset Model		KG1-15AS	KG1-20WS	KG1-25AS	KG1-30AS	KG1-25WS	KG1-30WS	
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 (1Ø) & 415 (3Ø)						
Governing class (As per ISO 8528 Part-V)		G2	G2	G2	G2	G2	G2	
Noise level	dBA	< 75	< 75	< 75	< 75	< 75	< 75	
Fuel Consumption*	At 100 % Load	4	5.1	6.4	8.2	5.8	7.6	
	At 75 % Load	3	3.8	5	6.4	4.4	5.8	
	At 50 % Load	2.2	2.7	4	4.9	2.9	4.4	
Fuel tank capacity	Ltrs	65	65	65	65	65	65	
°Weight of genset with canopy (approx.) ^A	Dry	Kg	900	920	1130	1130	1150	1150
	Wet	Kg	950	970	1180	1180	1200	1200
Overall dimensions of genset	Length	mm	1740	2055	2130	2130	2350	2350
	Width	mm	1050	950	1050	1050	950	950
	Height	mm	1410	1220	1520	1520	1230	1230
Electrical Battery starting voltage	Volts-DC	12	12	12	12	12	12	
ENGINE								
Engine Model		HA294 G1	2R1040 G1	HA394 TCI G1	HA394 TCI G2	3R1040T G1	3R1040T G1	
Rated output (Prime Continuous rating as per ISO 8528-1)	kW	15.1	18.8	23.5	29.4	24	30.9	
	HP	20.5	25.5	32	40	42	42	
No. of cylinder	Number	2	2	3	3	3	3	
Cubic capacity ²	Ltrs	1.88	2.08	2.89	2.89	3.12	3.12	
Bore x Stroke	mm	100 x 120	105 x 120	100 x 120	100 x 120	105 x 120	105 x 120	
Rated Speed	RPM	1500	1500	1500	1500	1500	1500	
Aspiration	NA/TC/TA	NA	NA	TC	TC	TC	TC	
Lube Oil change period	hrs.	500	500	500	500	500	500	
Lube oil Sump Capacity	Ltrs	5	5.5	8	8	8	8	
Coolant Capacity	Ltrs	NA	9	NA	NA	14.5	14.5	
ALTERNATOR								
Insulation Class		Class H						
Alternator Efficiency (at 100% load) 0.8 pf**	%	86	88.9	88.8	88.8	89	89	
Max Voltage Dip at Full Load 0.8 pf Lag	sec	≤ 20 %	≤ 16 %	≤ 16 %	≤ 16 %	≤ 16 %	≤ 16 %	
Max Time to build up rated voltage at Rated RPM		< 5 sec provided engine reach the rated speed						

For intermediate ratings, kindly contact nearest KOEL office

Notes

^A Tolerances Apply

* With 0.845 Specific Gravity of diesel (5 % Tolerance)

[°] These weight are for handling & transportation only

** Efficiency of Alternator as per standards IS 4722 and IEC 34-1

For Site Conditions other than standard operating conditions consult KOEL for available prime power.

Prime rating and Stand-by rating ¹



'Prime power' is designed for Unlimited hours, as compared to 'Emergency stand-by' designed for 200 hours in a year. Prime rated Gensets also permit 10% temporary overloading. Users need to carefully select the Genset rating to meet their requirement. KOEL offers Prime power as a standard offer. Contact KOEL for stand-by ratings.

Engine capacity does matter ²



Engine capacity (cc) plays a vital role in Genset performance. Higher engine capacity leads to a robust and stable Genset performance.

Higher engine capacity also enables the Genset to respond quickly & positively to sudden load additions.

Canopy

- Ease of Access and Serviceability
- Aesthetically designed, weather and sound resistant enclosure
- Insulation conforms to UL94-HF1 class for flammability

Controller

- Microprocessor based
- Graphical LCD display
- Best in class monitoring and diagnostic Capability
- Integrable with AMF



Engine

- O2E Series: Low emission, high efficiency engines
- Compact, Robust and Rugged Design
- 500 hours lube-oil change period

Alternator

- Best In Class Efficiency
- Special Windings to Reduce Harmonics
- Vacuum Pressure Impregnation and epoxy gel coating on the winding

KOEL's approach to meet revised CPCB norms

Revised CPCB norms are aimed at protecting the environment by reducing Genset emissions and improving emission quality. These are some of the most stringent emission norms in the world.

To meet the new norms, KOEL R&D team had a choice of multiple technologies. While selecting the technology, KOEL laid significant emphasis on long term needs of users viz:

- High reliability and durability of Gensets: Owing to extreme operating conditions in India, preference has been given to robust configurations, that have been running successfully for several years.
- Low running costs: An effort to reduce emissions tends to increase the running costs. KOEL has succeeded in achieving both in the same design.

- Optimized fuel efficiency as per actual usage: KOEL Green Gensets are tuned to provide maximum fuel efficiency in the most common operating band. At KOEL, we call it **O2E series** (Optimal Operating Efficiency).
- Affordable, On-site support: Proven technology ensures that product support is available close-by, without waiting for a specialist. KOEL team has taken special efforts to keep complex technologies at bay, which may require high on-site maintenance costs.

All this, while keeping the initial costs within the reach of a smart Genset buyer.

Integrated



Best-in-class Fuel Efficiency

KOEL Green Gensets offer a unique combination of CPCB norm compliance and enhanced fuel efficiency. Across the range, KOEL Green Gensets offer substantial savings in fuel cost.

O2E Series (Optimal Operating Efficiency):

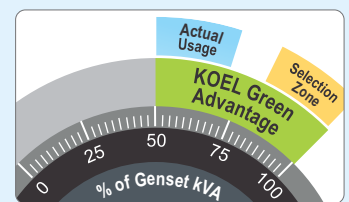
Genset ratings are selected based on the present load and future expansion. Fuel efficiency of most Gensets is optimized at the full rating of the Genset.

In practice, Gensets rarely get loaded to full capacity. Power demand variations across day & night, weekdays & weekends.

Summer & winter lead to an average 50-70% loading on the gensets.

Considering this practical situation, KOEL has extended fuel efficiency optimization from 100%, right up to 50% of rated load.

Combination of best-in-class fuel efficiency & O2E provides a double advantage.



Integrated



Genset Controls at your finger-tips

There is no comfort like being in command. KOEL Green Gensets put the command in your hands. Micro-processor based Genset controllers display a host of Genset parameters and put all controls at your fingertips.

Monitoring Features –

- Lube oil Pressure, Engine Temperature, RPM, lube oil Temperature*
- Run Hours, No. of starts, Fuel Level, Auto / Manual Stop, Battery charge condition, AC Phase Voltage, Current, kVA, kW, kWh, kVAR, Power Factor

Optional Features-

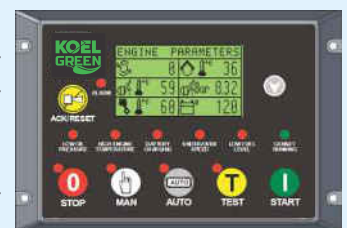
- Modbus communication*

* Features are available from 15 kVA onwards

Diagnostic Features –

- Battery charging failure, Over speed, Under speed, Over Current, Under Voltage, Over Voltage, Over kW, Phase Sequence monitoring, Phase missing, Common Alarm, Hooter output
- Low lube oil Pressure, High Engine Temperature, Low/High battery voltage, Low Fuel Level alarm, Over Crank protection, Routine Maintenance indicator, Genset Test Facility, fail to start/stop

KG934 Controller



Integrated



Peace-of-mind Ownership

KOEL Green Gensets have always been preferred for their robust design and reliability over long usage life.

KOEL Green range carries the confidence of well-established and proven engine platforms. For compliance to revised CPCB

norms, KOEL has carefully selected those technologies which not only retain, but enhance Gensets durability and on-site serviceability.

Thus, KOEL Gensets offer you many years of trouble-free performance; backed by the assurance of prompt support. Peace-of-mind driven by product reliability and low cost of ownership.

The Promise Behind The Product



KOEL Green Brand

KOEL Green is the Genset brand of Kirloskar Oil Engines Ltd (KOEL), the flagship company of the century-old Kirloskar Group. KOEL Green is India's largest selling and most trusted Genset brand for over a decade. Providing back-up power solutions from 15 to 5200 kVA for diverse market sectors, "KOEL Green" has over 1 million Gensets in service across the globe.

Research and Engineering

KOEL Gensets are designed and developed indigenously, using modern design & simulation technologies. KOEL's R&D team combines decades of application knowledge, global technology trends and emerging user expectations to develop best-in-class products for the target markets. The products are launched after extensive validation in world-class facilities.



State-of-the-art Manufacturing

KOEL Green Gensets are manufactured at the state-of-the-art manufacturing facilities of KOEL and authorized GOEMs across India. Common design, modern infrastructure, trained manpower, stringent process controls and standardized material quality ensure that every KOEL Green Genset complies with the standards and meets KOEL's stringent quality norms.

Sales Network

A well-trained network of authorized KG Dealers and GOEM Sales teams is spread across India to serve your requirements. KOEL offices at key locations provide further techno-commercial back-up. KOEL Sales teams are equipped to carry-out load study, Genset sizing and techno-commercial support. Installation and commissioning activities are also undertaken in line with KOEL's stringent guidelines.



Service Network

As Genset cannot be driven to a Service Station, service has to come to your door-step. KOEL Green Gensets are supported by over 5000 trained Engineers and over 450 well-equipped service outlets throughout India. Standard and custom-made maintenance packages offer a total-peace-of-mind ownership experience. Service response time and quality is centrally monitored for cross-industry benchmarking and continual improvement. Customers just need to dial our toll free number and service will be available at the door step.

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 KG guidelines
- Ensure adequate size and proper connection of cables
- Understand the Genset operation & maintenance procedures during commissioning
- Follow routine maintenance protocols through authorized KG service dealers

Product improvement is a continuous process. Kindly contact KOEL for latest information

- Ahmedabad: 079-26929687/89 ● Bengaluru: 080-49031130 ● Bhubaneshwar: 0674-2588047 ● Chennai: 044-23744624 ● Delhi: 011-28715826
- Guwahati: 0361-2457616 ● Indore: 0731-3913100 ● Jaipur: 0141-2370007 ● Kochi: 0484-2385757 ● Kolkata: 033-2170858 ● Lucknow: 0522-2741442
- Ludhiana: 0161-2546668/69 ● Meerut: 0121-2401199 ● Mumbai: 022-61511234 ● Patna: 0612-2220412 ● Pune: 020-25810341
- Secunderabad: 040-27534176/97

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Representative