320 - 1010 kVA





EFFICIENCY HAS A NEW NAME. HRE





EFFICIENT SERVICE

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EFFICIENT **24X7 CARE**





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



320 - 1010 kVA

ISO8528) 1 Genset Model Frequency Power factor Voltage (with Three Phass Supply Governing class (As per SO 8528 Noise level At 100 At 75 % At 50 % Fuel tank capacity Weight of genset with canopy (approx.)^ Fuel tank capacity Weight of genset with canopy (approx.)^ Electrical Battery starting voltage ENGINE Engine Model Rated output (Prime Continuous ra per ISO 8528-1) No. of cylinder Cubic capacity ² Bore x Stroke Rated Speed Aspiration Lube Oil change period Lube Oil Sump Capacity	B Part-V) dBA % Load 6 Load Ltrs/hr 6 Load Ltrs Kg mm mm mm Volts-DC	256 KG1-320WS 50 0.8 415 3Ø G3 <75 69 52.5 37.6 850 5910 5100 2000 2408 24 DV8TA G1 294	304 KG1-380WS 50 0.8 415 3Ø G3 <75 83.3 61.2 44.1 850 6000 5375 2000 2408 24 24 DV8TA G2 346	320 KG1-400WS 50 0.8 415 3Ø G3 <75 86.9 65.1 46 850 6050 5375 2000 2408 24 24	400 KG1-500WS 50 0.8 415 3Ø G3 <75 107.5 81.9 57.1 990 7200 5650 2000 2558 24 24	480 KG1-600WS 50 0.8 415 3Ø G3 <75 125.9 94.2 63.8 990 7700 66660 2000 2710 24 DV12TA G1	500 KG1-625WS 50 0.8 415 3Ø G3 <75 130.5 98.6 66.2 990 7800 6660 2000 2710 24	600 KG1-750WS 50 0.8 415 3Ø G3 <75 154 126.4 89.7 990 8300 6800 2300 2713 24	720 KG1-900WS 50 0.8 415 3Ø G3 <75 197 163 120 990 13600 8000 2300 2713 24	808 KG1-1010WS 50 0.8 415 3Ø G3 Contact KOEL for details 199 155 112 990 13200 7800 2300 2713 24	
Frequency Power factor Voltage (with Three Phase Supply Governing class (As per ISO 8528 Noise level Fuel Consumption* At 100 ° Fuel Consumption* At 50 % Fuel tank capacity Weight of genset with canopy (approx.)^ Overall dimensions of genset Dry Electrical Battery starting voltage Engine Engine Model Rated output (Prime Continuous raper ISO 8528-1) No. of cylinder Cubic capacity ² Bore x Stroke Rated Speed Aspiration Lube Oil change period	lagging /) V 8 Part-V) dBA % Load Ltrs/hr 6 Load Ltrs/hr 6 Load Ltrs % Load Mm % Uots-DC Mm ating as kW	50 0.8 415 3Ø G3 <75 69 52.5 37.6 850 5910 5100 2000 2408 24 DV8TA G1 294	50 0.8 415 3Ø G3 <75 83.3 61.2 44.1 850 6000 5375 2000 2408 24 24 DV8TA G2	50 0.8 415 3Ø G3 <75 86.9 65.1 46 850 6050 5375 2000 2408 24 24 DV8TA G3	50 0.8 415 3Ø G3 < 75 107.5 81.9 57.1 990 7200 5650 2000 2558 24	50 0.8 415 3Ø G3 <75 125.9 94.2 63.8 990 7700 6660 2000 2710 24	50 0.8 415 3Ø G3 <75 130.5 98.6 66.2 990 7800 6660 2000 2710 24	50 0.8 415 3Ø G3 <75 154 126.4 89.7 990 8300 6800 2300 2713 24	50 0.8 415 3Ø G3 <75 197 163 120 990 13600 8000 2300 2713 24	50 0.8 415 3Ø G3 Contact KOEL for details 199 155 112 990 13200 7800 2300 2713	
Power factor Voltage (with Three Phase Supply Governing class (As per ISO 8528 Noise level Fuel Consumption* At 100 Fuel Consumption* At 75 % Voltage (with Capacity Voltage Weight of genset with canopy (approx.)^ Dry Overall dimensions of genset Length Overall dimensions of genset Width Electrical Battery starting voltage Engine Model Rated output (Prime Continuous raper ISO 8528-1) No. of cylinder Cubic capacity ² Bore x Stroke Rated Speed Aspiration Lube Oil change period Lube Oil change period	lagging /) V 8 Part-V) dBA % Load Ltrs/hr 6 Load Ltrs/hr 6 Load Ltrs % Load Mm % Uots-DC Mm ating as kW	0.8 415 3Ø G3 <75 69 52.5 37.6 850 5910 5100 2000 2408 24 24 DV8TA G1 294	0.8 415 3Ø G3 <75 83.3 61.2 44.1 850 6000 5375 2000 2408 24 24 DV8TA G2	0.8 415 3Ø G3 < 75 86.9 65.1 46 850 6050 5375 2000 2408 24 24 DV8TA G3	0.8 415 3Ø G3 < 75 107.5 81.9 57.1 990 7200 5650 2000 2558 24	0.8 415 3Ø G3 <75 125.9 94.2 63.8 990 7700 6660 2000 2710 24	0.8 415 3Ø G3 <75 130.5 98.6 66.2 990 7800 6660 2000 2710 24	0.8 415 3Ø G3 <75 154 126.4 89.7 990 8300 6800 2300 2713 24	0.8 415 3Ø G3 <75 197 163 120 990 13600 8000 2300 2713 24	0.8 415 3Ø G3 Contact KOEL for details 199 155 112 990 13200 7800 2300 2713	
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Noise level At 100* Fuel Consumption* At 75 % At 50 % At 50 % Fuel tank capacity Dry Weight of genset with canopy (approx.)^ Dry Overall dimensions of genset Length Width Height Electrical Battery starting voltage ENGINE Engine Model Rated output (Prime Continuous raper ISO 8528-1) No. of cylinder Cubic capacity² Bore x Stroke Rated Speed Aspiration Lube Oil change period	dBA % Load % Load Ltrs/hr % Load Ltrs/kr % Load Ltrs % Kg % mm M	<75 69 52.5 37.6 850 5910 5100 2000 2408 24 DV8TA G1 294	<75 83.3 61.2 44.1 850 6000 5375 2000 2408 24 24 DV8TA G2	<75 86.9 65.1 46 850 6050 5375 2000 2408 24 24 DV8TA G3	<75 107.5 81.9 57.1 990 7200 5650 2000 2558 24	<75 125.9 94.2 63.8 990 7700 6660 2000 2710 24	<75 130.5 98.6 66.2 990 7800 6660 2000 2710 24	<75 154 126.4 89.7 990 8300 6800 2300 2713 24	<75 197 163 120 990 13600 8000 2300 2713 24	Contact KOEL for details 199 155 112 990 13200 7800 2300 2713	
Fuel Consumption* At 100 At 75 % At 50 % Fuel tank capacity Weight of genset with canopy (approx.)^ Dry Overall dimensions of genset Width Glearning Height Electrical Battery starting voltage ENGINE Engine Model Rated output (Prime Continuous raper ISO 8528-1) No. of cylinder Cubic capacity 2 Bore x Stroke Rated Speed Aspiration Lube Oil change period Lingen continuous	% Load Ltrs/hr 6 Load Ltrs/hr 6 Load Ltrs/mr 7 Ltrs Kg 1 Mm mm 1 Mm Mm 2 Volts-DC 2 Ltrs Kg 3 Mm Mm 4 Mm Mm 4 Mm Mm 5 Mm Volts-DC 5 Mm Kg 4 Mm Kg	69 52.5 37.6 850 5910 5100 2000 2408 24 DV8TA G1 294	83.3 61.2 44.1 850 6000 5375 2000 2408 24 24 DV8TA G2	86.9 65.1 46 850 6050 5375 2000 2408 24 24 DV8TA G3	107.5 81.9 57.1 990 7200 5650 2000 2558 24	125.9 94.2 63.8 990 7700 6660 2000 2710 24	130.5 98.6 96.2 990 7800 6660 2000 2710 24 24	154 126.4 89.7 990 8300 6800 2300 2713 24	197 163 120 990 13600 8000 2300 2713 24	for details 199 155 112 990 13200 7800 2300 2713	
Fuel Consumption* At 75 % At 50 % Fuel tank capacity Image: Constraint of the second	6 Load Ltrs/hr 6 Load Ltrs/hr 6 Load Ltrs 7 Kg 7 mm 7 mm 7 mm 7 Volts-DC 7 ating as	52.5 37.6 850 5910 5100 2000 2408 24 DV8TA G1 294	61.2 44.1 850 6000 5375 2000 2408 24 24 DV8TA G2	65.1 46 850 6050 5375 2000 2408 24 24 DV8TA G3	81.9 57.1 990 7200 5650 2000 2558 24	94.2 63.8 990 7700 6660 2000 2710 24	98.6 66.2 990 7800 6660 2000 2710 24	126.4 89.7 990 8300 6800 2300 2713 24	163 120 990 13600 8000 2300 2713 24	155 112 990 13200 7800 2300 2713	
At 50 % Fuel tank capacity Weight of genset with canopy (approx.)^ Dry Overall dimensions of genset Length Width Height Electrical Battery starting voltage Engine Engine Model Rated output (Prime Continuous raper ISO 8528-1) No. of cylinder Cubic capacity ² Bore x Stroke Rated Speed Aspiration Lube Oil change period	6 Load Ltrs Kg mm mm Wolts-DC	37.6 850 5910 5100 2000 2408 24 DV8TA G1 294	44.1 850 6000 5375 2000 2408 24 24 DV8TA G2	46 850 6050 5375 2000 2408 24 24 DV8TA G3	57.1 990 7200 5650 2000 2558 24	63.8 990 7700 6660 2000 2710 24	66.2 990 7800 6660 2000 2710 24	89.7 990 8300 6800 2300 2713 24	120 990 13600 8000 2300 2713 24	112 990 13200 7800 2300 2713	
Fuel tank capacity Weight of genset with canopy (approx.)^ Dry Overall dimensions of genset Length Width Height Electrical Battery starting voltage Engine Model Rated output (Prime Continuous raper ISO 8528-1) No. of cylinder Ous capacity 2 Bore x Stroke Rated Speed Aspiration Lube Oil change period Length	Ltrs Kg mm mm Volts-DC	850 5910 5100 2000 2408 24 DV8TA G1 294	850 6000 5375 2000 2408 24 24 DV8TA G2	850 6050 5375 2000 2408 24 DV8TA G3	990 7200 5650 2000 2558 24	990 7700 6660 2000 2710 24	990 7800 6660 2000 2710 24	990 8300 6800 2300 2713 24	990 13600 8000 2300 2713 24	990 13200 7800 2300 2713	
Weight of genset with canopy (approx.)^ Dry Overall dimensions of genset Length Width Height Electrical Battery starting voltage ENGINE Engine Model Rated output (Prime Continuous ra per ISO 8528-1) No. of cylinder Cubic capacity 2 Bore x Stroke Rated Speed Aspiration Lube Oil change period	Kg mm mm Wolts-DC	5910 5100 2000 2408 24 DV8TA G1 294	6000 5375 2000 2408 24 DV8TA G2	6050 5375 2000 2408 24 DV8TA G3	7200 5650 2000 2558 24	7700 6660 2000 2710 24	7800 6660 2000 2710 24	8300 6800 2300 2713 24	13600 8000 2300 2713 24	13200 7800 2300 2713	
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Overall dimensions of genset Width Height Electrical Battery starting voltage ENGINE Engine Model Rated output (Prime Continuous ra per ISO 8528-1) No. of cylinder Cubic capacity ² Bore x Stroke Rated Speed Aspiration Lube Oil change period	mm mm Volts-DC ating as kW	2000 2408 24 DV8TA G1 294	2000 2408 24 DV8TA G2	2000 2408 24 DV8TA G3	2000 2558 24	2000 2710 24	2000 2710 24	2300 2713 24	2300 2713 24	2300 2713	
of genset Width Height Electrical Battery starting voltage ENGINE Engine Model Rated output (Prime Continuous ra per ISO 8528-1) No. of cylinder Cubic capacity ² Bore x Stroke Rated Speed Aspiration Lube Oil change period	mm Volts-DC	2408 24 DV8TA G1 294	2408 24 DV8TA G2	2408 24 DV8TA G3	2558 24	2710 24	2710 24	2713 24	2713 24	2713	
Height Electrical Battery starting voltage Engine Model Engine Model Rated output (Prime Continuous ra per ISO 8528-1) No. of cylinder Cubic capacity ² Bore x Stroke Rated Speed Aspiration Lube Oil change period	Volts-DC	24 DV8TA G1 294	24 DV8TA G2	24 DV8TA G3	24	24	24	24	24		
ENGINE Engine Model Rated output (Prime Continuous ra per ISO 8528-1) No. of cylinder Cubic capacity ² Bore x Stroke Rated Speed Aspiration Lube Oil change period	ating as kW	DV8TA G1 294	DV8TA G2	DV8TA G3	1	. <u> </u>			I	24	
ENGINE Engine Model Rated output (Prime Continuous ra per ISO 8528-1) No. of cylinder Cubic capacity ² Bore x Stroke Rated Speed Aspiration Lube Oil change period	ating as	294			DV10TA G1	DV12TA G1	DIVIOTA OD				
Rated output (Prime Continuous ra per ISO 8528-1) No. of cylinder Cubic capacity ² Bore x Stroke Rated Speed Aspiration Lube Oil change period	ating as	294			DV10TA G1	DV12TA C1				1	
per ISO 8528-1) No. of cylinder Cubic capacity ² Bore x Stroke Rated Speed Aspiration Lube Oil change period	ating as		346			DVIZIAGI	DV121A G2	DV12ETA G1	DV16ETA G2	DV16ETA G1	
No. of cylinder Cubic capacity ² Bore x Stroke Rated Speed Aspiration Lube Oil change period	HP	100	0.0	360	447	532	552	662	799	889	
Cubic capacity ² Bore x Stroke Rated Speed Aspiration Lube Oil change period		400	470	490	608	723	750	900	1086	1210	
Bore x Stroke Rated Speed Aspiration Lube Oil change period	Number	8	8	8	10	12	12	12	16	16	
Rated Speed Aspiration Lube Oil change period	Ltrs	15.92	15.92	15.92	19.90	23.88	23.88	23.88	31.86	31.86	
Aspiration Lube Oil change period	mm	130 x 150	130 x 150	130 x 150	130 x 150	130 x 150	130 x 150	130 x 150	130 x 150	130 x 150	
Lube Oil change period	RPM	1500	1500	1500	1500	1500	1500	1500	1500	1500	
0 1	NA/TC/T	TA TA	TA	TA	TA	TA	TA	TA	TA	TA	
Lube Oil Sump Capacity	hrs	500	500	500	500	500	500	500	500	500	
	Ltrs	44	44	44	50	53	53	53	130	130	
Coolant Capacity	Ltrs	55	115	115	120	145	145	145	205	205	
ALTERNATOR				1	1	1					
Insulation Class						Class H					
Ingression Protection						IP 23					
Alternator Efficiency (at 100% load	d) 0.8 pf**	93.8	93.3	93.4	94.6	94.8	95.9	94.6	94.3	95.1	
Alternator Efficiency (at 75% load	d) 0.8 pf**	94.3	93.8	94.0	94.9	95.2	96.2	94.9	94.2	95.4	
Permissible Voltage Dip at Full Los Lag	ad 0.8 pf	<u>≤</u> 20 %	<u>≤</u> 20 %	<u>≤</u> 20 %	<u>≤</u> 20 %	<u>≤</u> 20 %	<u>≤</u> 20 %	<u>≤</u> 19%	≤19%	≤15%	
Time Permitted to build up rated ve Rated RPM	roltage at		< 1 sec provided engine reach the rated speed								
Short Circuit Ratio		0.55	0.418	0.422	0.477	0.432	0.414	0.485	0.484	0.431	
Short Circuit Withstand Time	sec	<"3 sec" 3 Times rated current for "10 sec"									
Overload Withstand Capacity	%	5 000	10% overload for one hour once in 12 hours								

For intermediate ratings, kindly contact nearest KOEL office

Notes

*With 0.845 Specific Gravity of diesel (5 % Tolerance) ^ These weight are for handling & transportation only

910 kVA rating genset is available on order

** Efficiency of Alternator as per standards IEC 60034-1

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

Engine capacity does matter²

Prime rating and Stand-by rating¹



'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.

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, synchronization & communication configurations



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.

Engine

- O2E Series: Low emission, high efficiency engines
- Compact, Robust and Rugged Design
- 500 hours lube-oil change period
 - Integral set mounted radiator system, designed & tested for 50°C ambient temperature

– 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 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 succeeded in achieving both in the same design.

- Optimized fuel efficiency as per actual usage: KOEL Green Gen sets 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.

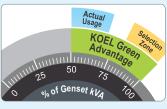
O2E Series (Optimal Operating Efficiency):

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 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

Efficiency

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 -

- Phase Voltages & Currents, Frequency, Reverse power, Genset kVA, kW, kWh, kVAr, Power Factor, Canopy Temperature
- Lube oil Pressure, Engine Temperature, RPM, Run Hours, Number of starts, Fuel Level, Auto / Manual Stop
- Battery charge condition
- AMF feature
- Modbus communication, Synchronization, Remote Monitoring

Diagnostic Features -

- Battery charging failure, Over/Under speed, Over Current, Over/Under Voltage, Over kW, Phase Seq., Phase missing, Mains Under voltage, Earth Fault trip, Fuel usage Alarm
- Low lube oil Pressure, High Engine Temperature, Low/High battery voltage, Low Fuel Level, Over Crank protection, Routine maintenance indicator, Genset Test Facility, Mains Frequency

KG745 Controller



KRM Desktop Display



Integrated

Efficiency

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 centuryold 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.

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.

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





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 bench marking 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 2692 9687/89 Bengaluru: 080 490 31130 Bhubaneshwar: 0674 258 8047 Chennai: 044 237 44624 Delhi: 011 2871 5826
- Guwahati: 0361 2457616 Indore: 0731 3913100 Jaipur: 0141 2370007 Kochi: 0484 2385757 Kolkata: 033 2170858 Lucknow: 0522 2741442
- Ludhiana: 0161 254 6668 / 69 Meerut: 0121 240 1199 Mumbai: 022 6151 1234 Patna: 0612 222 0412 Pune: 020 2581 0341

• Secunderabad: 040 - 275 34176 / 97

KIRLOSKAR OIL ENGINES LIMITED

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www.koelgreen.com



Stamp of Authorised Representative KG L2_320-1010 kVA/ Dec 17_01