



Enriching Lives

## Kirloskar Green Marine Gensets

Range: 10 kVA to 625 kVA (8 kW to 500 kW)



*Bringing  
Smiles*

*Across Nautical Miles!*

# About Us

## A leading player in the global market

Incorporated in 1946, Kirloskar Oil Engines Limited (KOEL) is a part of the Kirloskar Group. KOEL is one of the leading and largest manufacturer of diesel engines ranging from 4 hp to 800 hp and from 2,400 hp to 11,000 hp with the annual manufacturing volumes exceeding 320,000 engines.

We are one of the world's leading Generator sets manufacturer. "Kirloskar Green Genset" is a major player globally, providing a power output from 5 kVA to 3000 kVA.

Branded as 'Kirloskar', the engines are used as prime movers and are the most preferred choice when it comes to powering agro-industrial applications, earth moving and construction equipment, material handling equipment, marine applications and equipment used by the defence forces.

## The power to enhance productivity

The company have four state-of-the-art manufacturing set ups. The engines are manufactured in a most eco-friendly environment in India at our Pune, Kolhapur-Kagal, Rajkot & Nashik Plants.

The manufacturing plants are well equipped with most advance and high-tech machineries, having latest technology for machining of all the critical components.



## The power to innovate through the latest technology



KOEL has In-house ultra-modern Research and Engineering facility for Design, Development and up-gradation of engines, systems, controls and canopy.

Proactive cutting edge research is carried out by a team of experienced professionals with single-minded zeal to develop innovations that delight our customers and gives our products the competitive edge.



## Kirloskar Green Advantages

We take care of your power needs, while you take care of your business

### Compact design saving your money on space

Our engines deliver maximum power in minimum space. Being compact in design, the engine occupies less space in the engine room giving good accessibility ensuring ease in service and maintenance.

## Kirloskar Green Power Facts

- Fully integrated Gensets & Power systems to meet current & future needs of customers.
- Market leader with full range from 5 kVA to 6300 kVA.
- Every 2<sup>nd</sup> Genset in the country is a Kirloskar Green Genset.
- Over 75,000 Gensets all over the country help to run the Indian Telecom Network.
- More than 15,000 Gensets deployed along the Indian Borders providing the reliable power to the Defence forces.
- More than 100 special containerised Genset packages, supplied for critical Defence applications.
- Large number of satisfied customers from Manufacturing, Software, Construction, Infrastructure sector.

## Awards & Accolades

### KOEL pursue highest quality adherence to zero defect

The awards strongly demonstrate our commitment towards excellence. They are the emblems of our achievement as well as responsibility.

- Rated "Most preferred Brand" & "Customer Service Support Leadership" by Frost & Sullivan
- ISO 9001 certification for QMS since 1992 by ABS QE, Inc
- ISO/TS 16949:2002 for QMS since 2007 by ABS QE, Inc, upgraded to ISO/TS 16949:2009



- ISO 14001 Certification for EMS systems since 1999 by TUVNORD
- Best energy efficient units
  - CII National Award for Excellence in energy management (2012)
  - Second prize by Govt of India for Nashik plant (2009)
- OHSAS 18001:2007 certification for Health, Safety & Environment since 2009 by PUVNORD
- CII Exim Bank Award for Business Excellence for "Strong Commitment to Excel on the journey towards Business Excellence" (2009, 2010 & 2011).

## Product at a Glance

### Air Intake System

- Dry type air cleaner
- Vacuum indicator
- Air intake manifold
- Turbocharger, as applicable

### Exhaust System

- Exhaust manifold dry type
- Exhaust silencer
- S.S. Expansion bellow

### Fuel System

- Fuel filter
- In line mono block fuel pump with inbuilt mechanical /electronic governor

### Cooling System

- Heat exchanger with expansion tank
- Fresh water pump
- Sea water pump
- Charge air cooler, if applicable
- Thermostat installed in fresh water circuit

### Lubricating Oil System

- Lube oil sump suitable for Marine installation
- Lube oil pump-gear driven
- Lube oil cooler – engine mounted (fresh water cooled), as applicable
- Lube oil filter
- Oil filling with cap for engine oil sump filling & lube oil dipstick for lube oil level check engine mounted

### Starting System

- 12/24V DC Electrical Starting System consisting of
  - 12/24 V DC Starter
  - 12/24 V DC Battery charging alternator

### Engine Monitoring

- Digital display will be provided for the following:
  - Lube oil pressure
  - Lube oil temperature
  - Fresh water temperature
  - Tacho & hour indication
  - Battery charging voltage

### Safety Controls

- Annunciation panel for audio visual alarms/trips
- High fresh water temperature alarm and trip
- Low lube oil pressure alarm and trip
- High lube oil temperature alarm
- Jacketed high pressure fuel pipe failure alarm
- Over-speed Protection

### Other Engine Parts/Accessories

- Flywheel with starter gear ring
- Flywheel housing

### Marine Duty Alternator

- Brushless, 415V, 3 Ø, 50 Hz, 0.8 pf, 1500 RPM Marine duty alternator

### Base Frame & Coupling

- Engine & Alternator are mounted on a sturdy fabricated base frame (close coupled). Anti-vibration mountings will be supplied with DG set

### Class Approved

- DG set will be offered duly certified by classification society

### NOx Compliance

- Engine meet the IMO norms for compliance to exhaust emission (applicable for engine rating >130 kW)

## Kirloskar Green Marine Gensets

Range: 10 kVA to 625 kVA  
(8 kW to 500 kW)



## Technical Specification for HE Cooled Marine Genset

Parameter Description	Unit	2R1040	3R1040	4R1040	4R1040T	4R1040TA	6R1080T	6R1080TA	6SL9088TAI	6SL9088TA	6SL1500TA SR1	6SL1500TA SR2	6SL8800TA	DV8	DV10	DV12 SR1
<b>kVA Rating</b>	<b>kVA</b>	18	28	40	62.5	82.5	100	125	140	155	180	200	250	320/400	500	625
<b>Electrical Rating at 1500 RPM</b>	<b>kW</b>	14.4	22.4	32	50	66	80	100	112	124	144	160	200	256/320	400	500
<b>Power Factor</b>	<b>Lag</b>	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
<b>Frequency</b>	<b>Hz</b>	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
<b>Phase</b>	<b>1Ø/3Ø</b>	3 Ø	3 Ø	3 Ø	3 Ø	3 Ø	3 Ø	3 Ø	3 Ø	3 Ø	3 Ø	3 Ø	3 Ø	3 Ø	3 Ø	3 Ø
<b>ENGINE DATA</b>																
<b>Engine Model</b>	<b>Unit</b>	<b>2R1040</b>	<b>3R1040</b>	<b>4R1040</b>	<b>4R1040T</b>	<b>4R1040TA</b>	<b>6R1080T</b>	<b>6R1080TA</b>	<b>6SL9088TAI</b>	<b>6SL9088TA</b>	<b>6SL1500TA SR1</b>	<b>6SL1500TA SR2</b>	<b>6SL8800TA</b>	<b>DV8</b>	<b>DV10</b>	<b>DV12 SR1</b>
<b>No. of Cylinder</b>	<b>No</b>	2	3	4	4	4	6	6	6	6	6	6	6	8	10	12
<b>Type of Construction</b>	<b>Inline / V type</b>	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	V type	V type	V type
<b>Cubic Capacity</b>	<b>Ltrs</b>	2.08	3.12	4.16	4.16	4.16	6.50	6.50	8.86	8.86	8.86	8.86	8.86	16	20	24
<b>Bore x Stroke</b>	<b>mm</b>	105x120	105x120	105x120	105x120	105x120	105x125	105x125	118x135	118x135	118x135	118x135	118x135	130x150	130x150	130x150
<b>Aspiration</b>	<b>NA/T/TA</b>	NA	NA	NA	T	TA	T	TA	TA	TA	TA	TA	TA	TA	TA	TA
<b>ELECTRICAL SYSTEM</b>																
<b>Class of Insulation</b>		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
<b>Enclosure Type</b>		IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23
<b>Voltage</b>	<b>V</b>	415	415	415	415	415	415	415	415	415	415	415	415	415	415	415
<b>Voltage Regulation</b>		±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%

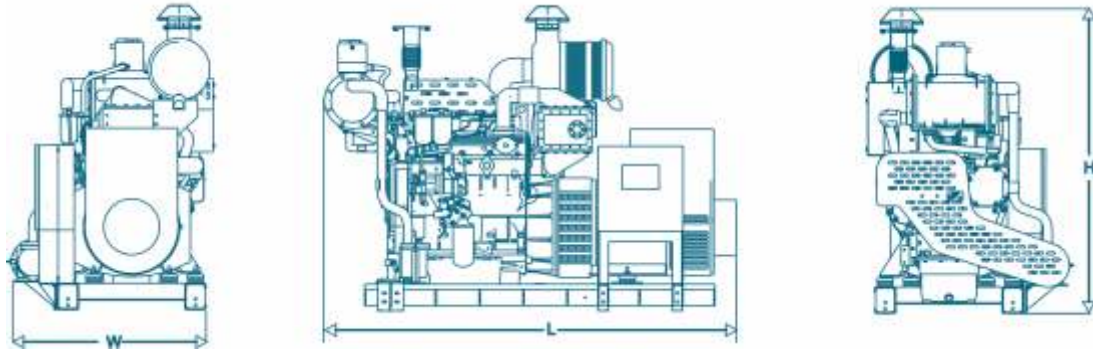
In view of continuous product up-gradation, specifications given in Technical data sheet are subjected to change without prior notice.

### Note:

1. Genset considered with close coupling arrangement. Long coupled DG set (with flexible coupling) can be provided on request
2. DG set considered with 12/24V DC electric start. Air/Spring starter can be provided on request

3. kVA ratings are declared at 45°C ambient temperature, sea level altitude & 90% RH.
4. Continuous output with 10% overload for 1 hour in each 12hrs running.
5. Radiator cooled Genset are also available on request for entire range.

# General Arrangement Drawing (HE Cooled Marine Genset)



## DG sets Approximate Dimension & Weight

Engine Model	Overall dimensions of DG sets (L x W x H) (mm)	DG sets Dry Weight (Kg)
2R1040	1600 x 950 x 1350	670
3R1040	1700 x 950 x 1350	820
4R1040	1800 x 950 x 1350	1030
4R1040T	1910 x 950 x 1400	1160
4R1040TA	1910 x 950 x 1550	1240
6R1080T	2290 x 1210 x 1500	1510
6R1080TA	2290 x 1210 x 1600	1590
6SL9088TAI	2610 x 1160 x 1875	1890
6SL9088TA	2650 x 1160 x 1875	1935
6SL1500TA SR1	2800 x 1160 x 2000	2035
6SL1500TA SR2	2800 x 1160 x 2000	2035
6SL8800TA	2800 x 1160 x 2000	2155
DV8	3100 x 1600 x 2100	5600
DV10	3400 x 1600 x 2100	6000
DV12 SR1	3700 x 1600 x 2100	6400

In view of continuous product upgradations DG sets dim. & wt. given in data sheet are subjected to change without prior notice.

### Note:

- Dimensions & Dry weight are given considering HE cooled genset & closed coupled alternator
- DG set dimensions including all marine accessories

### Kirloskar Green Marine Gensets

When it comes to powering Marine applications, reliability of Gensets is of utmost importance as DG set is the only source of electrical power supply on the ship.

Kirloskar Green Marine Gensets are designed, customised and manufactured at our Pune plant which are tested to meet the class and application requirement. The lubricating oil system offered with deep lube oil sump takes care of the rolling and pitching encountered during the operation at sea. The cooling system is suitable for operation with sea water supply.

### Enriching lives

No matter, off the shore where your vessels are voyaging across the oceans. Kirloskar Green Marine Gensets offer a powerful experience to give you total pleasure & peace of mind, whenever & wherever you are operating from the beginning to end of your journey.

### Power solution for every Marine application

Kirloskar Green Gensets are customised as per specific Marine application requirements. Kirloskar Green Gensets provide power to run diverse range of Marine applications from small to large recreational boats, commercial shipping to ocean going vessels, pleasure craft to mega yachts such as short trip coastal freighters, luxury yachts, fishing vessels, ferry boats, tow boats, tugs, trawlers, harbor tour boats. We also provide Gensets to various Naval and Coast Guard vessels such as IPV's, FPV's, Interceptor boats, Fuel Barges, Survey vessels, CTS's, NOPV's etc.

### Marine DG sets meeting following special Indian Navy requirements for higher range can also be supplied on request

- Engines NSS II & MIL-STD-167-I-TYPE-I certified by Naval Science and Technology Laboratory (NSTL)
- Engines water tight up to bottom of the crankshaft main bearing
- Alternators meeting EED-Q-242(R2) requirements
- DG sets meeting NES 313 requirements
- Marine DG sets with Canopy

# After Sales Service Support

## Customer Care

Round the clock, at your service, whenever & wherever you need.

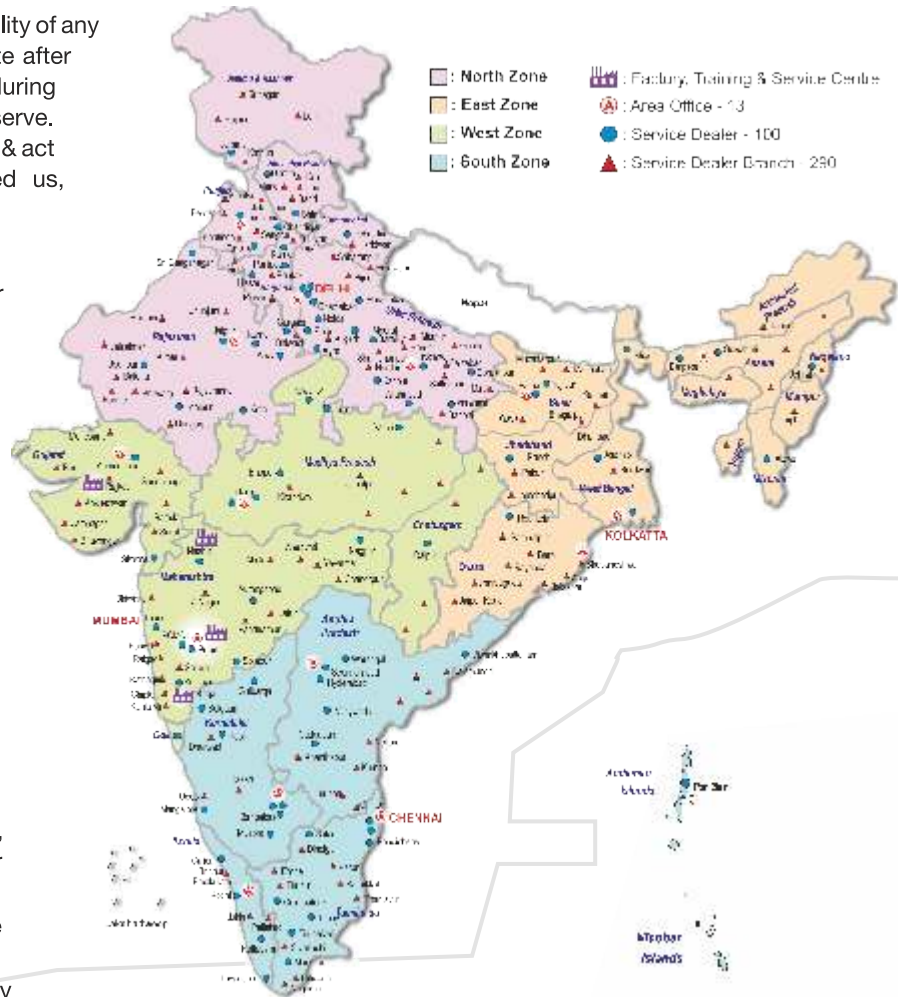
After sales service is the key to the long-term viability of any business. We are committed to provide adequate after sales service support & believe in creating enduring relationship with every individual customer we serve. Kirloskar believes in the wise saying "think global & act local" with full dedication, which have helped us, successfully achieve "100 years of great service".

## Service Offerings

- Authorized Kirloskar Service Dealers in your neighborhood to promptly respond to your service calls, provide extensive after sales support including operational, maintenance & repair contract.
- Single window service for Genset & Customised AMC.
- 24x7 help line service for all our customers, offering timely customer support to deal with inquiries.
- Fully implemented CRM module to provide proactive & quick service response.
- Trained & experienced service team to provide value-added support to the highest standards ensuring customer satisfaction at all times.
- Support systems like Mean Time to Restore, Engine Down Order, First Pick Availability for maximum uptime of Gensets.
- K-oil / K-cool super plus for product life extension.
- Excellent product support through easy availability of spare parts, product training, Reconditioning and warranty administration.
- Easy and Quick delivery... anywhere anytime.

## Service Network Across the Nation

Where your business operations are far reaching across the country & moreover when they are located in absolute remote places, your business counts on reliability & availability ensuring minimum downtime. Key to the quality of our after sales service is our strong service force, which are always ready to attend your calls anywhere anytime.



### Help Desk :

Call 1800 233 3344 (Toll free from BSNL/MTNL)

020-6608 4608 (Other than BSNL/MTNL)

Email : [koel.helpdesk@kirloskar.com](mailto:koel.helpdesk@kirloskar.com)

Customer assistance is available from our help desk (24 hrs. x 7 days a week) for all after sales & service assistance.

Stamp of  
Authorised  
Representative

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**KIRLOSKAR**  
**GREEN**  
POWER IDEAS