kirloskar
powergen

25-58.5 kVA

CPCBIV+ COMPLIANT

INDIA'S LARGEST FLEET OF GENSETS

BETTER POWER
FOR A

limitless

TOMORROW


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FOR A
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A RICH HERITAGE OF OVER A CENTURY OF ENGINEERING EXCELLENCE.

Kirloskar power generating sets prioritize user experience, delivering exceptional features and benefits. Streamlined installation and enhanced dependability to expedited service, reduced maintenance costs, and optimized performance.

Kirloskar Powergen sets itself apart with groundbreaking engineering that establishes new industry benchmarks.

limitless POTENTIAL, SUSTAINABLE PRACTICES

Our state-of-the-art manufacturing facility embodies our commitment to sustainable practices. We partner with nature to power the facility itself, transforming waste into valuable resources. This focus on sustainability inspires both our workforce and surrounding communities. It's here, where cutting-edge technology meets exceptional skills, that we engineer solutions to empower limitless possibilities.

25-58.5kVA TECHNICAL SPECIFICATIONS

Prime Rating at rated rpm (as per ISO8528)		kVA	25	30	40	58.5
		kW	20	24	32	46.8
Genset Model			KG4-25WS1	KG4-30WS1	KG4-40WS1	KG4-58.5WS
Frequency		Hz	50			
Power Factor		lagging	0.8			
Voltage		V	230 (1Ø) & 415 (3Ø)		415 (3Ø)	
Governing class (As per ISO 8528 Part-V)			G2			
DG set Noise level at 1 meter		dBA	<75 (Genset with canopy)			
Fuel tank capacity (Standard DG set)		Ltrs	50	72	100	165
✪Weight of genset with canopy (approx.)^	Dry	Kg	770	1025	1165	1460
	Wet (w/o fuel)	Kg	780	1040	1180	1485
Overall dimensions of genset ^	Length	mm	2330	2500	2750	2900
	Width	mm	950	950	1050	1100
	Height	mm	1260	1385	1495	1580
Electrical Battery Start in R Voltage		Volts-DC	12			

ENGINE

Engine Model		3R55OETA 4G1	3R1190ENA 4G1	3R1190ETA 4G1	4R810ETA 4G1
Rated output	kW	26.5	31	41.1	54.4
(Prime Continuous rating as per ISO8528-1)	HP	36	42	56	74
No. of cylinder	Number	3	3	3	4
Cubic capacity	Ltrs	1.65	3.57	3.57	3.24
Bore x Stroke	mm	86 x 94	110 x 125	110 x 125	96 x 112
Rated Speed	RPM	1500			
Aspiration	NA/TC/TA	TA	NA	TA	TA
Lube Oil change period	hrs.	500			
Lube oil Sump Capacity (max)	Ltrs	5.95	7	7	10
Coolant Capacity	Ltrs	4.9	10	8.3	12.7

ALTERNATOR

Insulation Class		Class H			
Alternator Efficiency (at 100% load) 0.8 pf**	%	87.9	88.4	87.9	90.8
Max Voltage Dip at Full Load 0.8 pf lag		< 20 %	< 16 %	< 16 %	< 20 %
Max Time to build up rated voltage at Rated RPM		< 2 sec, provided engine reach the rated speed			

^ Tolerances Apply
✪ These Weight are for handling & transportation only
** Efficiency of Alternator as per standards IEC60034-1

Notes
Above specifications are subject to change without prior notice due to continuous technical development.
For intermediate ratings, kindly contact nearest Kirloskar office.
For Site Conditions other than standard operating conditions consult Kirloskar Oil Engines for available prime power.

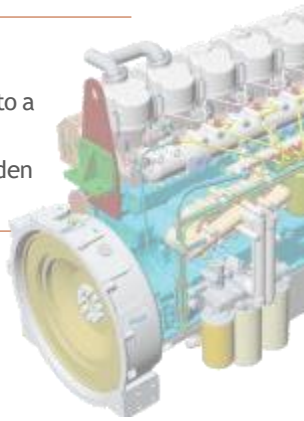
7 Easy steps for a happy Genset Ownership

- 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 carfully
- Insist on installation in line with Kirloskar guidelines
- Ensure adeqate size and proper connection of cables
- Understand the Genset operation & maintenance procedures during commissioning
- Follow routine maintenance protocols through authorised Kirloskar service dealers

Genset kVA 25 to 58.5 kVA Features

Prime rating and Stand-by rating

'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. Kirloskar offers Prime power as a standard offer. Contact Kirloskar for stand-by ratings.



No replacement to displacement

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.

Best Fluid Efffciency (Fuel)

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

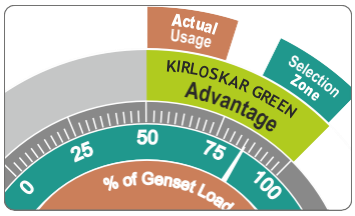
O2E Series (Optimal Operating Efffciency):

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, Kirloskar 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.

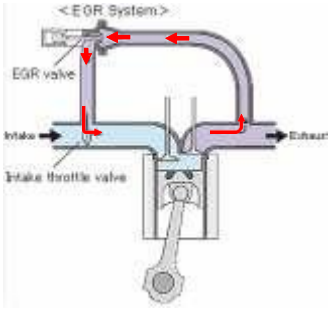


Exhaust gas recirculation (EGR)

EGR is used to reduce NOx emitted by the engine. By recirculating exhaust gases into the engine's cylinder, a percentage of the air is replaced with CO_2.

It is an effective strategy to control NOx (Nitrogen Oxides) Emissions from diesel engines.

Some part of exhaust gas is recirculated in the combustion chamber. Once mixed, the concentration of the oxygen in the fresh air is reduced and the temperature of the fresh air is increased slightly.



Common Rail Direct Injection System (CRDi):

Common rail diesel injection technology, popularly known as CRDi, provides a significant upgrade over traditional mechanical fuel injection systems. CRDi provides precise fuel control, multiple injections, enhanced performance, lower noise and reduced emissions. High pressure common rail system employed on Kirloskar CPCB IV+ Gensets maximizes fuel atomization, delivering a smooth and smoke free performance. Diesel filters with 'A' class filtration are used for CRDi Engines which enhances the filtration efficiency. Common rail fuel injection system will provide a new level of performance, efficiency, and reliability.

Genset Monitoring at Your Finger Tips

Kirloskar gensets are enabled with Kirloskar remote monitoring system which shares Real Time Genset information and location Services. It can be accessed via mobile device or desktop. Kirloskar remote monitoring system also highlights any parameter which needs special attention. These critical indication alerts are sent to user mobile via text message. It also alerts nearest services dealer in case of any emergency break-down.

KRM Desktop Display

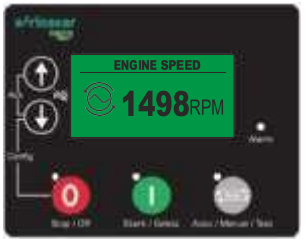
Ask your Dealer for KRM login details & password

On Board Diagnostics

Superior uptime. Genset comes with advanced diagnostic capabilities, this coupled with Kirloskar remote monitoring system provides real time monitoring of performance, emission and service critical parameters this helps for early diagnosis to fix the issues before system breakdown.

State of the art Genset Controller

KG640C Controller



Kirloskar Genset 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, Genset kVA, kW, kWh, kVAr, Power Factor
- Lube oil Pressure, Engine Temperature, RPM, Run Hours, Number of starts, Fuel Level, Auto / Manual Stop, Battery charge condition, AMF feature

Diagnostic Features:

- Battery charging failure, Over/Under speed, Over Current, Over/Under Voltage, Over kW, Phase Seq., Phase missing, Mains Under voltage, Low fuel level
- 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

Optional Features:

- Modbus Communication

Peace-of-mind Ownership

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

Kirloskar range carries the confidence of well-established and proven engine platforms. For compliance to revised CPCB norms, Kirloskar has carefully selected those technologies which not only retain, but enhance Gensets durability and on-site serviceability.

Thus, Kirloskar 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.

Alternator Features

Kirloskar Alternator is compact in design, rugged and best in class efficiency. Advanced Digital AVR improves the Voltage regulation and Response time.

Compact footprint

Kirloskar CPCB compliant Gensets are having compact foortprint which results in space saving. CPCB compliant technology is upgraded by maintaining the compact footprint of Genset.

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Glimpses
CPCB IV+
Genset (25-58.5 kVA)

Engine
- Efficient CRDi System
- 02E Series: Low emission, high efficiency engine
- Compact, Robust and Rugged Design
- 500 hours lube-oil change period

Exhaust Gas Treatment System
- DOC system sets off the reaction to meet the CPCB norms
- Reduction in PM
- EGR System used to reduce the level of NOx emitted by Engine

Controller
- Microprocessor based
- Graphical LCD display
- Best in class monitoring and diagnostic capability
- Integrable with AMF, Communication compatible

Base Frame
- High Quality Material

Inbuilt Silencer
- Inbuilt Silencer support for Noise level
- Good in Aesthetic
- Space saving

O2E - Optimal operating efficiency
DOC - Diesel oxidation catalyst

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DELIVERING POWER TO OVER 50+ COUNTRIES.

INGENIOUS DESIGN.
UNMATCHED PERFORMANCE.

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