

kirloskar
Oil Engines



TO THOSE WHO
POWER LIFE, WE SAY

MAY THE POWER ALWAYS BE WITH YOU



**CPCB IV+
COMPLIANT**

INDIA'S LARGEST
FLEET OF GENSETS

7.5-20 kVA

SAINI INDIA LTD A SALES CHANNEL PARTNER FOR KIRLOSKAR PRODUCT.

BETTER POWER FOR A *limitless* TOMORROW

SAINI INDIA LTD A SALES CHANNEL PARTNER FOR KIRLOSKAR PRODUCT.

7.5-20 KVA

Prime Rating at rated rpm (as per ISO8528)			kVA	7.5	7.5	10	15	20
			kW	6	6	8	12	16
Genset Model				KG4-7.5SAS1	KG4-7.5WS1	KG4-10WS1	KG4-15WS1	KG4-20WS1
Frequency			Hz	50				
Power Factor			lagging	0.8				
Voltage			V	230 (1Ø) & 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	28	32	32	40
⚙️Weight of genset with canopy (approx..)^	Dry	Kg	620	545	585	605	680	
	Wet (w/o fuel)	Kg	670	550	590	610	690	
Overall dimensions of genset ^	Length	mm	1310	1600	1800	1850	2180	
	Width	mm	810	760	760	760	905	
	Height	mm	1600	1050	1050	1050	1150	
Electrical Battery Starting Voltage			Volts-DC	12				
ENGINE								
Engine Model				EA10NA 4G1	2R550NA 4G1	3R550NA 4G1	3R550TC 4G1	3R550TA 4G1
Rated output (Prime Continuous rating as per ISO 8528-1)			kW	7.3	7.9	11	15.4	18.8
			HP	10	10.74	15	20.9	25.5
Cooling system				Air	Liquid			
No. of cylinder			Number	1	2	3	3	3
Cubic capacity²			Ltrs	0.95	1.09	1.65	1.65	1.65
Bore x Stroke			mm	102 x 116	86 x 94	86 x 94	86 x 94	86 x 94
Rated Speed			RPM	1500				
Aspiration			NA/TC/TA	NA	NA	NA	TC	TA
Lube Oil change period			hrs.	500				
Lube oil Sump Capacity (max)			Ltrs	5	3.8	5.95	5.95	5.95
Coolant Capacity (Engine + radiator)			Ltrs	NA	3.4	3.78	4.2	5
ALTERNATOR								
Insulation Class				Class H				
Alternator Efficiency (at 100% load) 0.8 pf**			%	78.1	82.5	82.6	85.2	88.6
Max Voltage Dip at Full Load 0.8 pf lag			sec	< 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 carefully
- Insist on installation in line with Kirloskar Green guidelines
- Ensure adequate size and proper connection of cables
- Understand the Genset operation & maintenance procedures during commissioning
- Follow routine maintenance protocols through authorized Kirloskar Green service dealers

Genset kVA 7.5 to 20 kVA Features

SAINI INDIA LTD A SALES CHANNEL PARTNER FOR KIRLOSKAR PRODUCT.



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.



Beest-in-class Fluid Efficiency (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 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, Kirloskar has extended fuel efficiency optimization from 100%, right up to 50% of rated load.

In line with fuel efficiency Kirloskar Genset ensures the better DEF efficiency and accordingly optimized the DEF tank size.

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

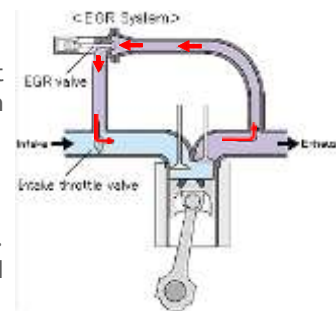


Exhaust gas recirculation (EGR)

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 CO₂.

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.



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 service dealer in case of any emergency break-down.

KRM Desktop Display



Ask your Dealer for KRM login details & password

SAINI INDIA LTD A SALES CHANNEL PARTNER FOR KIRLOSKAR PRODUCT.



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

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

KG645CR Controller



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.



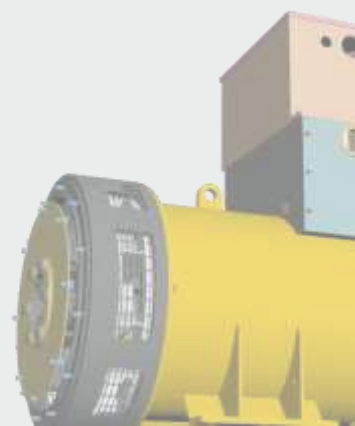
Alternator Features:

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



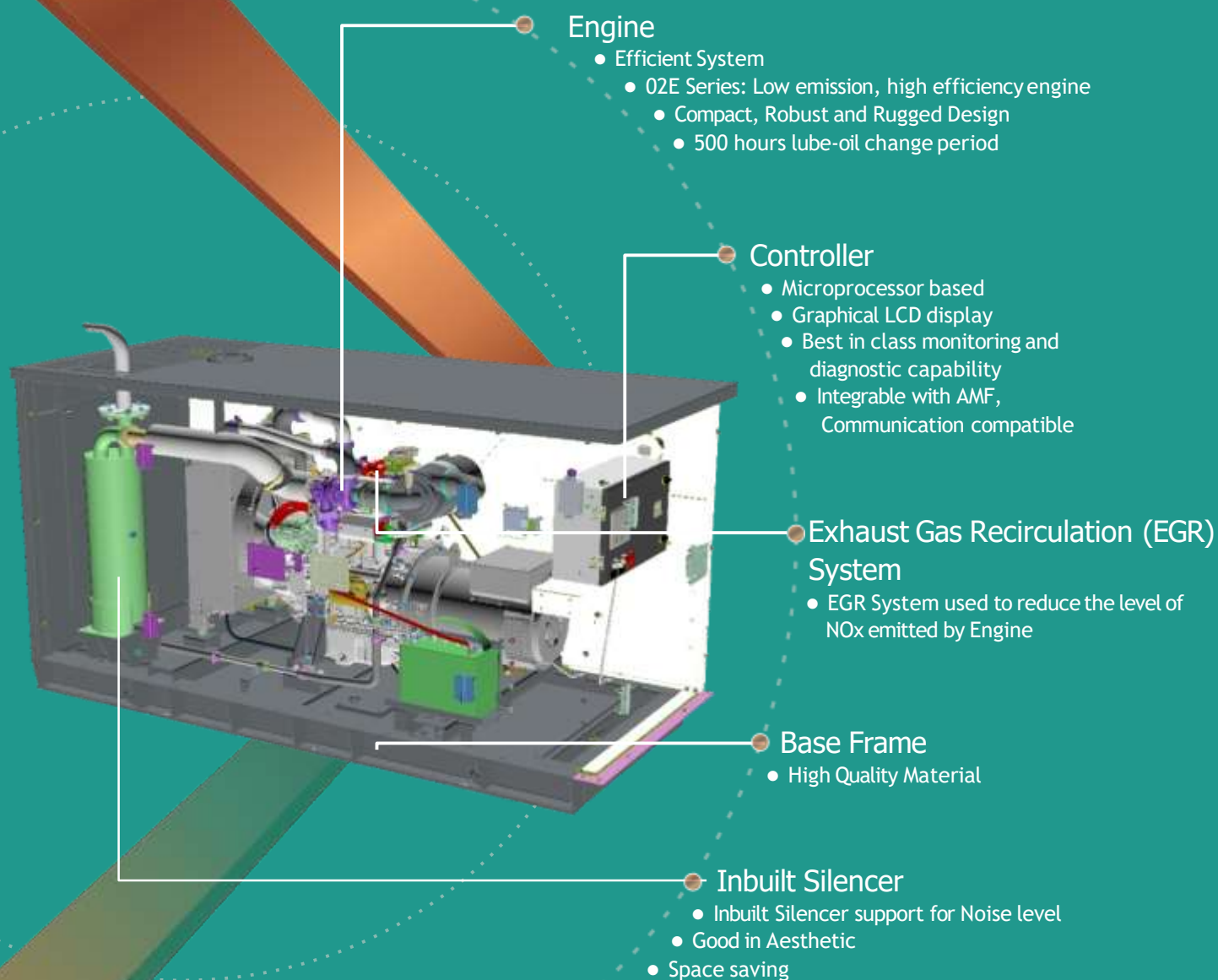
Compact footprint:

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



SAINI INDIA LTD A SALES CHANNEL PARTNER FOR KIRLOSKAR PRODUCT.

Glimpses CPCB IV+ Genset (7.5-20 KVA)



O2E - Optimal operating efficiency
DOC - Diesel oxidation catalyst

EFFICIENCY. INTEGRATED

A KIRLOSKAR PROMISE

SAINI INDIA LTD A SALES CHANNEL PARTNER FOR KIRLOSKAR PRODUCT.

Efficient Products

- India's first IoT enabled digital genset
- Designed for convenient user experience
- Best-in-class fuel efficiency delivered
- Compact design & long life product
- Optimized consumption of lubricant oil
- Optimized total cost of ownership (TCO)
- All products tested before delivery

EFFICIENT



EFFICIENT



Efficient Solutions

- Load sizing for every single genset order
- One stop power back-up solutions
- Serves complete application gamut
- Highly trained & experienced team
- Non-conventional solutions (bio-diesel)
- Specific solution for harsh environments
- Exhaust mgmt., foundation, cabling etc.

Efficient Service

- India's widest service dealer network
- Kirloskar connect-self-service application
- eFSR-Electronic field service report
- Over 6000 trained service engineers
- Over 600,000 machines under care
- 98%+ parts available at each outlet
- Flexible & economical AMC-Bandhan

EFFICIENT



EFFICIENT



Efficient Network

- Consistent, reliable & long-established
- 250+ expert touch points across India
- 500+ solution oriented professionals
- Uniform customer experience across
- Central system for enquiry to PRF
- Fair trade practices & Price transparency

Efficient Deliveries

- Cost-effective deliveries guaranteed
- Assured 7-day delivery of gensets
- Supports project management system
- Reduced working capital for customer
- Award-winning replenishment model
- Assurance of FRESH products always

EFFICIENT



EFFICIENT



Efficient 24X7 Care

- 24 X 7 operational customer care centre
- Team of over 70 trained & focused exec.
- Tracking every service request till closure
- Centrally maintained CRM for all requests
- Satisfaction call after every SR closure
- Central sales lead tracking system
- Continuous NPS and CDI measurement

We offer products for every segment & take part in the India's growth story.



kirloskar
Oil Engines

www.kirloskaroilengines.com

Kirloskar Oil Engines Limited

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25-58.5 kVA

Prime Rating at rated rpm (as per 150&528)		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	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			3R550ETA 4G1	3R1190ENA 4G1	3R1190ETA 4G1	4R810ETA 4G1
Rated output (Prime Continuous rating as per ISO8528-1)		kW	26.5	31	41.1	54.4
		HP	36	42	56	74
No. of cylinder		Number	3	3	3	4
Cubic capacity ^o		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	1500	1500	1500
Aspiration		NA/TC/TA	TA	NA	TA	TA
Lube Oil change period		hrs.	500			
Lube oil Sump Capacity		Ltrs	5.95	7	7	10
Coolant Capacity		Ltrs	5	10	8.3	12.70
ALTERNATOR						
Insulation Class			H			
Alternator Efficiency (at 100¼ load) 0.8 pf**		%	88.9	88.4	87.9	90.8
Max Voltage Dip at Full Load 0.8 pf lag		sec	< 20%			
Max Time to build up rated voltage at Rated RPM			< 2 sec, provided engine reach the rated speed			

[^] Tolerances Apply

^o These Weight are for handling & transportation only

** Efficiency of Alternator as per standards IEC60034-1

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Genset kVA 25 to 58.5 kVA Features

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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-in-class Fluid Efficiency (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 Efficiency):

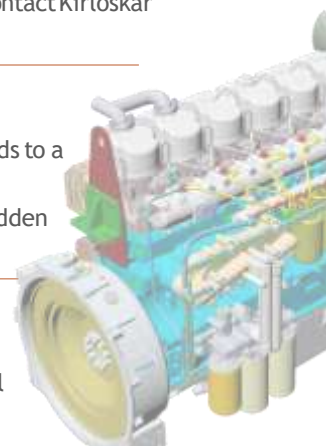
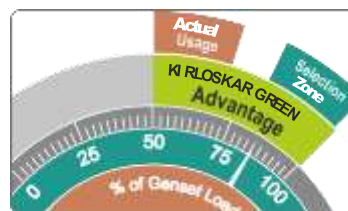
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In practice, Gensets rarely get loaded to full capacity. Power demand variations across day & night, weekdays & weekends, summer & winter lead to an average 50-70% loading on Gensets.

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

In line with fuel efficiency Kirloskar Genset ensures the better DEF efficiency and accordingly optimized the DEF tank size.

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



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

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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

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

KG640C Controller



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.



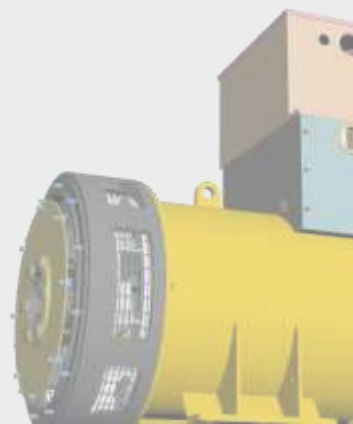
Alternator Features:

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



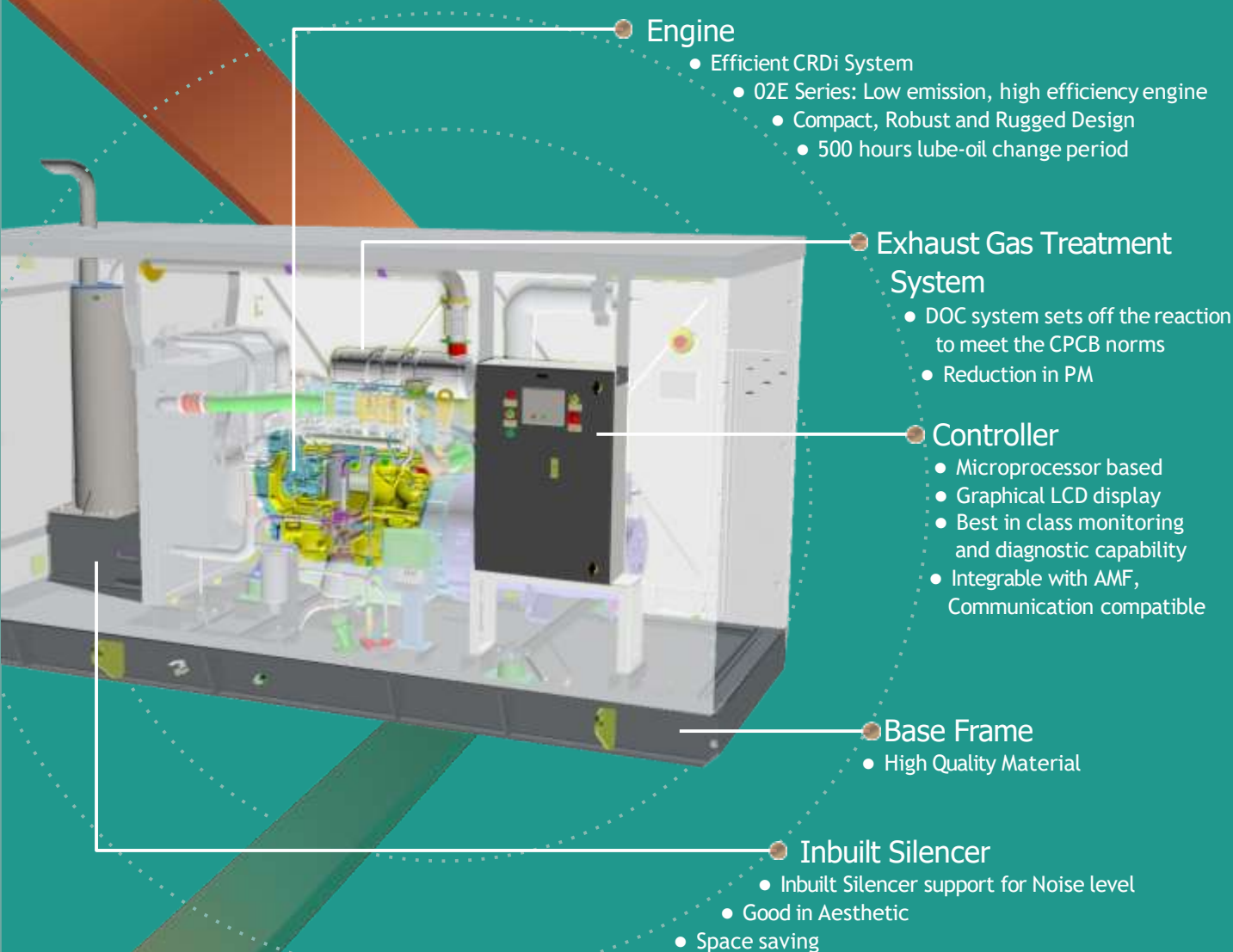
Compact footprint:

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



SAINI INDIA LTD A SALES CHANNEL PARTNER FOR KIRLOSKAR PRODUCT.

Glimpses CPCB IV+ Genset (25-58.5 KVA)



O2E - Optimal operating efficiency
DOC - Diesel oxidation catalyst

EFFICIENCY. INTEGRATED

A KIRLOSKAR PROMISE

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Efficient Products

- India's first IoT enabled digital genset
- Designed for convenient user experience
- Best-in-class fuel efficiency delivered
- Compact design & long life product
- Optimized consumption of lubricant oil
- Optimized total cost of ownership (TCO)
- All products tested before delivery

EFFICIENT



EFFICIENT



Efficient Solutions

- Load sizing for every single genset order
- One stop power back-up solutions
- Serves complete application gamut
- Highly trained & experienced team
- Non-conventional solutions (bio-diesel)
- Specific solution for harsh environments
- Exhaust mgmt., foundation, cabling etc.

Efficient Service

- India's widest service dealer network
- Kirloskar connect-self-service application
- eFSR-Electronic field service report
- Over 6000 trained service engineers
- Over 600,000 machines under care
- 98%+ parts available at each outlet
- Flexible & economical AMC-Bandhan

EFFICIENT



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Efficient Network

- Consistent, reliable & long-established
- 250+ expert touch points across India
- 500+ solution oriented professionals
- Uniform customer experience across
- Central system for enquiry to PRF
- Fair trade practices & Price transparency

Efficient Deliveries

- Cost-effective deliveries guaranteed
- Assured 7-day delivery of gensets
- Supports project management system
- Reduced working capital for customer
- Award-winning replenishment model
- Assurance of FRESH products always

EFFICIENT



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Efficient 24X7 Care

- 24 X 7 operational customer care centre
- Team of over 70 trained & focused exec.
- Tracking every service request till closure
- Centrally maintained CRM for all requests
- Satisfaction call after every SR closure
- Central sales lead tracking system
- Continuous NPS and CDI measurement

We offer products for every segment & take part in the India's growth story.



Infrastructure



Industry



IT/ITES



Hospitality



Health



Reality



Government



Logistics

Kirloskar
Oil Engines

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82.5-160 kVA

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82.5-160 kVA

Prime Rating at rated rpm (as per ISO8528)		kVA	82.5	100	125	160
		kW	66	80	100	128
Genset Model			KG4-82.5WS1	KG4-100WS1	KG4-125WS1	KG4-160WS11
Frequency		Hz	50			
Power Factor		lagging	0.8			
Voltage		V	415 (3Ø)			
Governing class (As per ISO 8528 Part-V)			G3			
DG set Noise level at 1 meter		dBA	<75 (Genset with canopy)			
Fuel tank capacity (Standard DG set)		Ltrs	200	230	230	400
⊕Weight of genset with canopy approx..) ^	Dry	Kg	1800	2170	2200	2980
	Wet	Kg	1860	2230	2260	3050
Overall dimensions of genset ^	Length	mm	3200	3200	3200	4200
	Width	mm	1350	1350	1350	1450
	Height	mm	1595	1800	1800	1900
Electrical Battery Starting Voltage		Volts-DC	12			
ENGINE						
Engine Model			4R1190ETA 4G1	4K1080ETA 4G1	4K1080ETA 4G1	6K1080ETA 4G1
Rated output (Prime Continuous rating as per ISO 8528-1)	kW		77.2	114.7	114.7	147.1
	HP		105	156	156	200
No. of cylinder		Number	4	4	4	6
Cubic capacity ²		Ltrs	4.76	4.32	4.32	6.48
Bore x Stroke		mm	110 x 125	105 x 125	105 x 125	105 x 125
Rated Speed		RPM	1500			
Aspiration		NA/TC/TA	TA			
Lube Oil change period		hrs.	500			
Lube oil Sump Capacity		Ltrs	10	14	14	25
Coolant Capacity		Ltrs	15	18	18	28
Adblue/ DEF capacity		Ltrs	25	25	25	45
ALTERNATOR						
Insulation Class			H			
Alternator Efficiency (at 100% load) 0.8 pf**		%	91	91.9	92.4	92.8
Max Voltage Dip at Full Load 0.8 pf lag			< 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

AdBlue used should follow ISO 22241.

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For Site Conditions other than standard operating conditions consult Kirloskar Oil Engines for available prime power.

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



Genset kVA 82.5-160 kVA Features

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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.



Beest-in-class Fluid Efficiency (Fuel & DEF)

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 Efficiency):

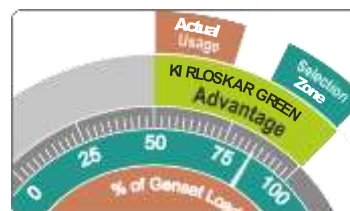
Genset ratings are selected based on the present load and future expansion. Fuel efficiency of most Gensets is optimized at the full rating of the Genset.

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, Kirloskar has extended fuel efficiency optimization from 100%, right up to 50% of rated load.

In line with fuel efficiency Kirloskar Genset ensures the better DEF efficiency and accordingly optimized the DEF tank size.

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



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

SAINI INDIA LTD A SALES CHANNEL PARTNER FOR KIRLOSKAR PRODUCT.



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

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

KG640C Controller



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.



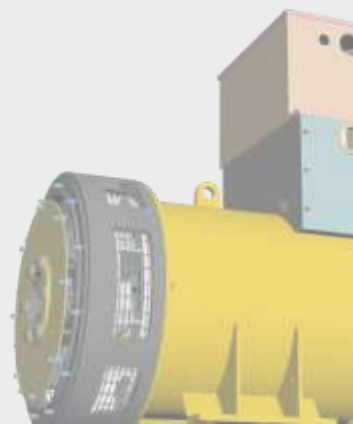
Alternator Features:

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



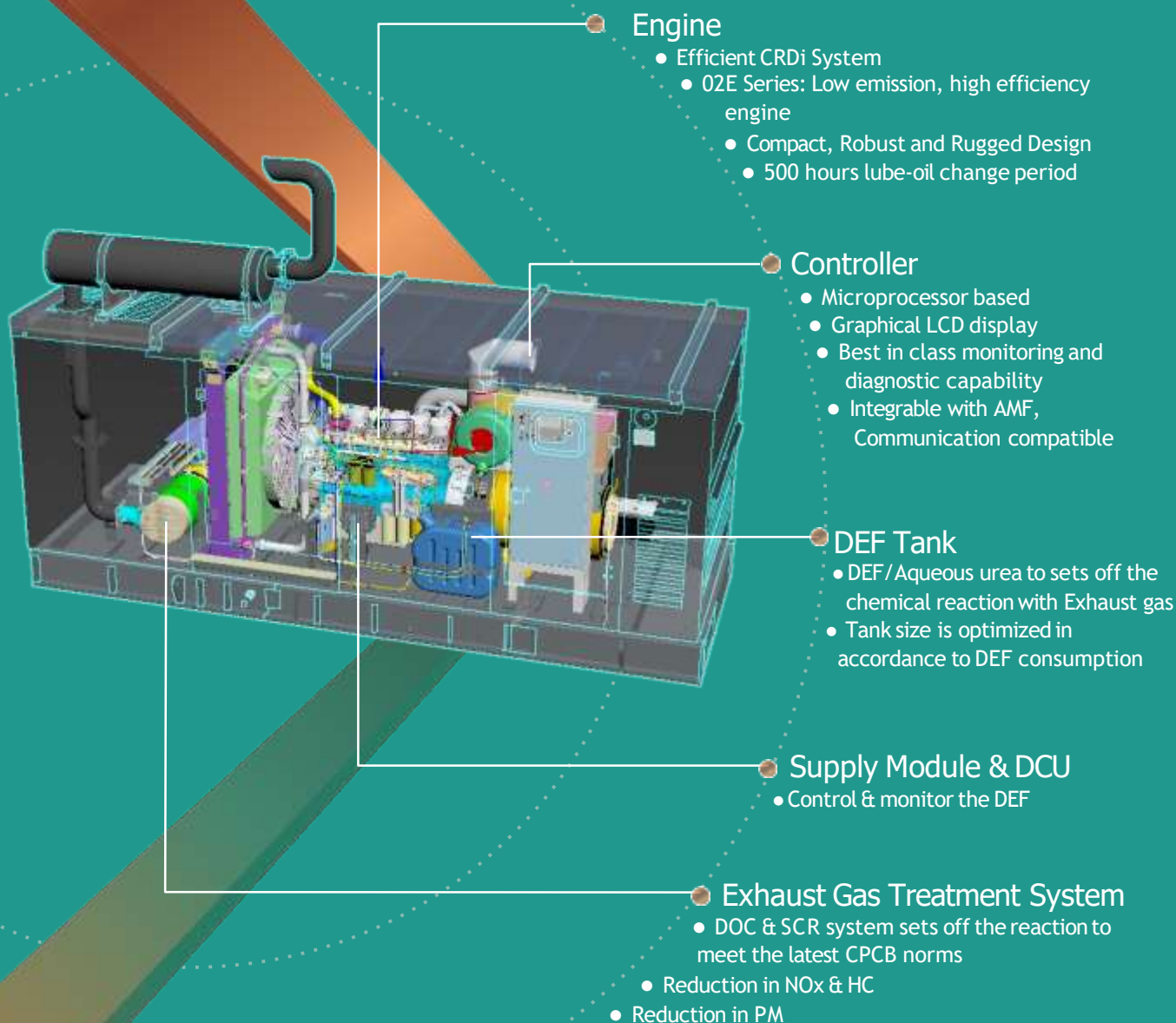
Compact footprint:

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



SAINI INDIA LTD A SALES CHANNEL PARTNER FOR KIRLOSKAR PRODUCT.

Glimpses CPCB IV+ Genset (82.5-160 KVA)



O2E - Optimal operating efficiency
DEF - Diesel exhaust fluid
DCU - Dosing control unit
DOC - Diesel oxidation catalyst
SCR - Selective catalytic reduction

EFFICIENCY. INTEGRATED

A KIRLOSKAR PROMISE

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Efficient Products

- India's first IoT enabled digital genset
- Designed for convenient user experience
- Best-in-class fuel efficiency delivered
- Compact design & long life product
- Optimized consumption of lubricant oil
- Optimized total cost of ownership (TCO)
- All products tested before delivery

EFFICIENT



EFFICIENT



Efficient Solutions

- Load sizing for every single genset order
- One stop power back-up solutions
- Serves complete application gamut
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- Specific solution for harsh environments
- Exhaust mgmt., foundation, cabling etc.

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EFFICIENT



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Efficient Network

- Consistent, reliable & long-established
- 250+ expert touch points across India
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- Cost-effective deliveries guaranteed
- Assured 7-day delivery of gensets
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EFFICIENT



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Infrastructure



Industry



IT/ITES



Hospitality



Health



Realty



Government



Logistics

kirloskar
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SAINI INDIA LIMITED

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SAINI CORPORATE COMPLEX

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info@sainiindia.co.in/hp@sainiindia.co.in/www.sainiindia.co.in

kirloskar
Oil Engines



TO THOSE WHO
POWER LIFE, WE SAY

MAY THE POWER ALWAYS BE WITH YOU



**CPCB IV+
COMPLIANT**

INDIA'S LARGEST
FLEET OF GENSETS

200-250 kVA

SAINI INDIA LTD A SALES CHANNEL PARTNER FOR KIRLOSKAR PRODUCT.

BETTER POWER FOR A *limitless* TOMORROW

SAINI INDIA LTD A SALES CHANNEL PARTNER FOR KIRLOSKAR PRODUCT.

200-250 kVA

Prime Rating at rated rpm (as per ISO8528)		kVA	200	250
		kW	160	200
Genset Model			KQ4-200WS1	KQ4-250WS1
Frequency		Hz	50	
Power Factor		lagging	0.8	
Voltage		V	415 (3Ø)	
Governing class (As per ISO 8528 Part-V)			G3	
DG set Noise level at 1 meter		dBA	<75 (Genset with canopy)	
Fuel tank capacity (Standard DG set)		Ltrs	400	600
⚙️Weight of genset with canopy (approx.)^	Dry	Kg	3080	3990
	Wet	Kg	3150	4100
Overall dimensions of genset ^	Length	mm	4200	4750
	Width	mm	1450	1700
	Height	mm	1900	2005
Electrical Battery Starting Voltage		Volts-DC	12	24
ENGINE				
Engine Model			6K1080ETA 4Q2	6SL90ETA 4Q2
Rated output (Prime Continuous rating as per ISO 8528-1)		kW	183.8	228
		HP	250	310
No. of cylinder		Number	6	6
Cubic capacity²		Ltrs	6.48	8.86
Bore x Stroke		mm	105 x 125	118 x 135
Rated Speed		RPM	1500	
Aspiration		NA/TC/TA	TA	
Lube Oil change period		hrs.	500	
Lube oil Sump Capacity		Ltrs	25	27
Coolant Capacity		Ltrs	28	36
Adblue/ DEF capacity		Ltrs	45	
ALTERNATOR				
Insulation Class			H	
Alternator Efficiency (at 100% load) 0.8 pf**		%	94.2	94.3
Max Voltage Dip at Full Load 0.8 pf lag			< 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

AdBlue used should follow ISO 22241.

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



Genset kVA 200 to 250 kVA Features

SAINI INDIA LTD A SALES CHANNEL PARTNER FOR KIRLOSKAR PRODUCT.



Primerating 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.



Beest-in-class Fluid Efficiency (Fuel & DEF)

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 Efficiency):

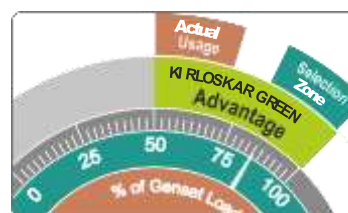
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Considering this practical situation, Kirloskar has extended fuel efficiency optimization from 100%, right up to 50% of rated load.

In line with fuel efficiency Kirloskar Genset ensures the better DEF efficiency and accordingly optimized the DEF tank size.

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



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.



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On Board Diagnostics :

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State of the art Genset 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, Canopy Temperature (optional)
- 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, Earth Fault trip, 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

* Controller KG640C is only for 6K Engine

KG745 Controller



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.

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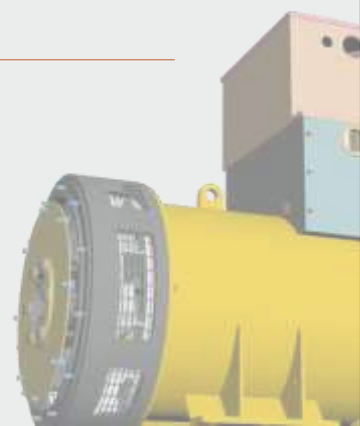
Alternator Features:

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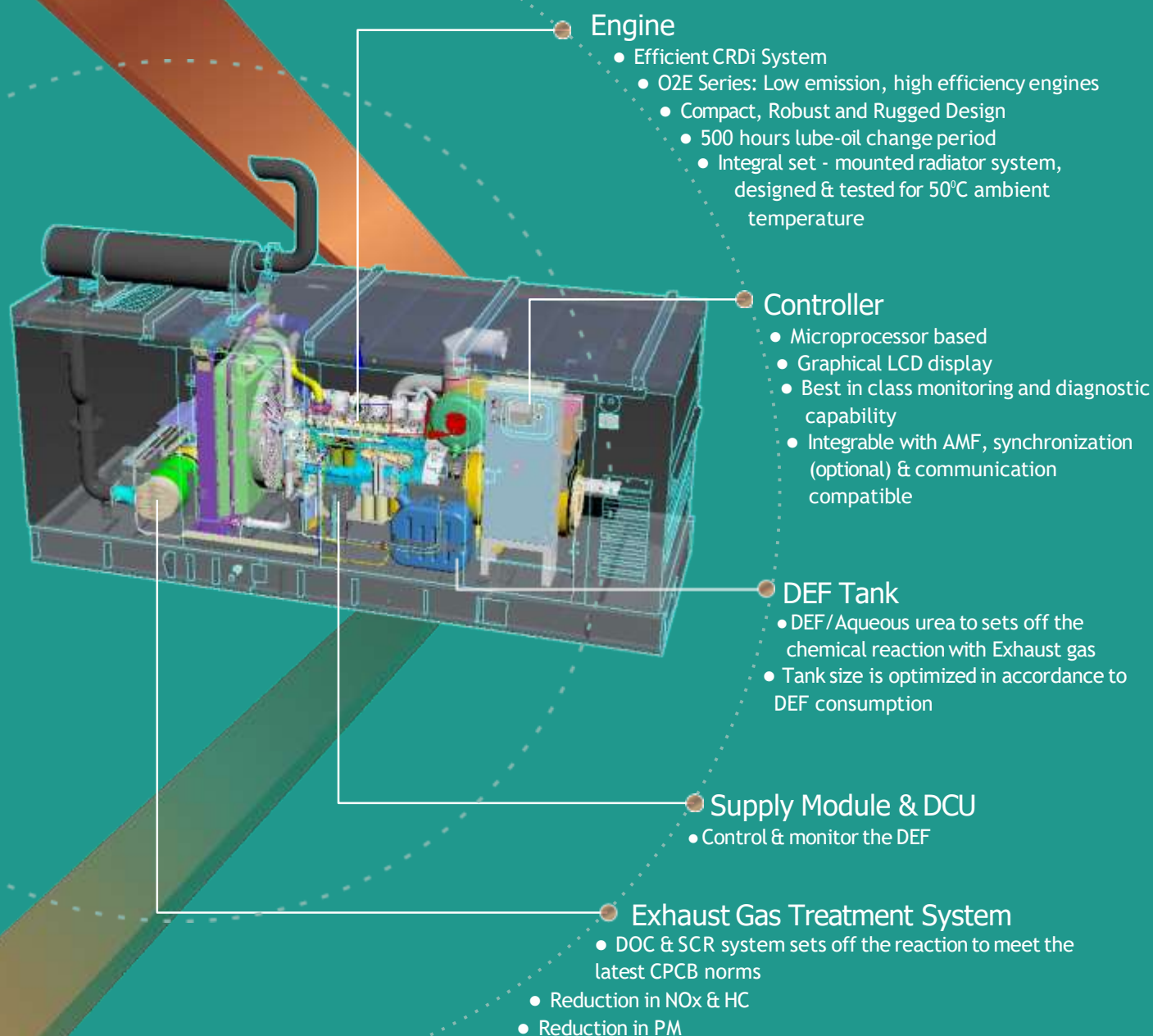
Compact footprint:

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Glimpses CPCB IV+ Genset (200-250 kVA)



O2E - Optimal operating efficiency
DEF - Diesel exhaust fluid
DCU - Dosing control unit
DOC - Diesel oxidation catalyst
SCR - Selective catalytic reduction

EFFICIENCY. INTEGRATED

A KIRLOSKAR PROMISE

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Efficient Products

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EFFICIENT



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Efficient Solutions

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EFFICIENT



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Infrastructure



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Health



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kirloskar
Oil Engines



TO THOSE WHO
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MAY THE

POWER

**ALWAYS BE
WITH YOU**



**CPCB IV+
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INDIA'S LARGEST
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200-625 kVA

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BETTER POWER FOR A *limitless* TOMORROW

SAINI INDIA LTD A SALES CHANNEL PARTNER FOR KIRLOSKAR PRODUCT.

200-625 kVA

Prime Rating at rated rpm (as per ISO8528)		kVA	200 HD	320 HD	500 HD	625 HD
		kW	180	256	400	500
Genset Model			KG4-200WS1	KG4-320WS (HD)	KG4-500WS (HD)	KG4-625WS11 (HD)
Frequency		Hz	50			
Power Factor		lagging	0.8			
Voltage		V	415 (3Ø)			
Governing class (As per ISO 8528 Part-V)			G3			
DG set Noise level at 1 meter		dBA	<75 (Genset with canopy)			
Fuel tank capacity (Standard DG set)		Ltrs	480	850	990	990
✎Weight of genset with canopy (approx.) [^]	Dry	Kg	3850	6750	8140	9350
	Wet	Kg	3960	6850	8360	9500
Overall dimensions of genset [^]	Length	mm	4550	5100	6500	6800
	Width	mm	1700	2125	2125	2300
	Height	mm	2005	2610	2710	2715
Electrical Battery Starting Voltage		Volts-DC	24			
ENGINE						
Engine Model			6SL90ETA 4G1	DV8ETA 4G1	DV10ETA 4G1	DV12ETA 4G1
Rated output (Prime Continuous rating as per ISO 8528-1)		kW	183.8	294.2	447.2	561.1
		HP	250	400	608	763
No. of cylinder		Number	6	8	10	12
Cubic capacity ²		Ltrs	8.86	15.92	19.9	23.88
Bore x Stroke		mm	118 x 135	130 x 150	130 x 150	130 x 150
Rated Speed		RPM	1500	1500	1500	1500
Aspiration		NA/TC/TA	TA	TA	TA	TA
Lube Oil change period		hrs.	500			
Lube oil Sump Capacity		Ltrs	27	40	50	73
Coolant Capacity		Ltrs	35	55	80	175
Adblue/ DEF capacity		Ltrs	45	45 x 2		
ALTERNATOR						
Insulation Class			H			
Alternator Efficiency (at 100% load) 0.8 pf**		%	94.2	94.6	94.8	95.7
Max Voltage Dip at Full Load 0.8 pf lag			< 20 %			
Max Time to build up rated voltage at Rated RPM			< 2 sec, provided engine reach the rated speed			

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Genset kVA 200 to 625 kVA Features

SAINI INDIA LTD A SALES CHANNEL PARTNER FOR KIRLOSKAR PRODUCT.



Prime rating and Stand-by rating

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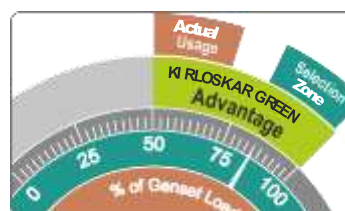
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Optional Features:

- Modbus Communication
- Synchronization

KG745 Controller



Peace-of-mind Ownership

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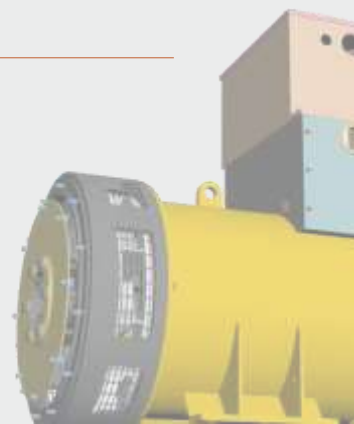
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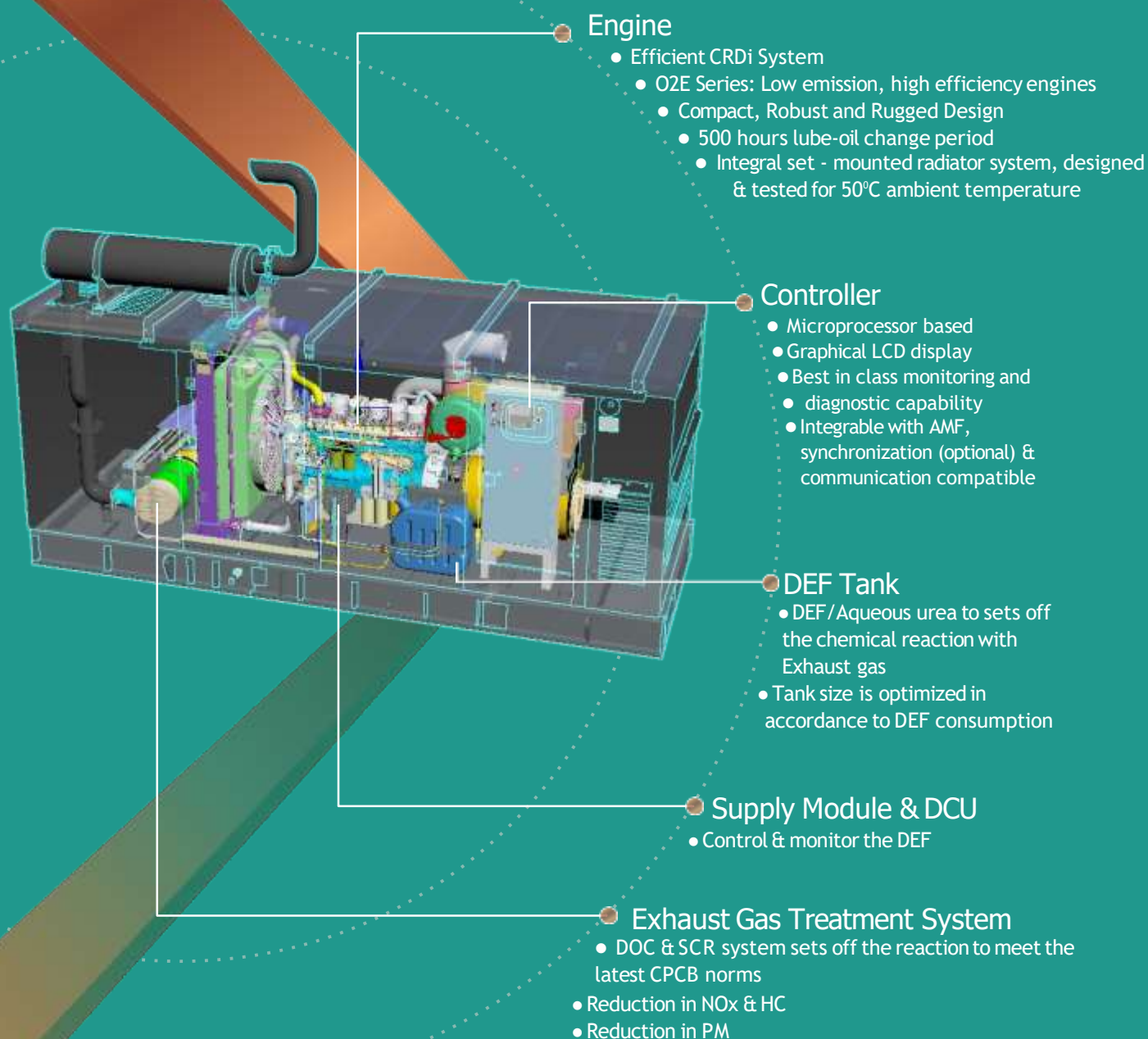
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Glimpses CPCB IV+ Genset (200-625 KVA)



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DOC - Diesel oxidation catalyst
SCR - Selective catalytic reduction

EFFICIENCY. INTEGRATED

A KIRLOSKAR PROMISE

SAINI INDIA LTD A SALES CHANNEL PARTNER FOR KIRLOSKAR PRODUCT.

Efficient Products

- India's first IoT enabled digital genset
- Designed for convenient user experience
- Best-in-class fuel efficiency delivered
- Compact design & long life product
- Optimized consumption of lubricant oil
- Optimized total cost of ownership (TCO)
- All products tested before delivery

EFFICIENT



EFFICIENT



Efficient Solutions

- Load sizing for every single genset order
- One stop power back-up solutions
- Serves complete application gamut
- Highly trained & experienced team
- Non-conventional solutions (bio-diesel)
- Specific solution for harsh environments
- Exhaust mgmt., foundation, cabling etc.

Efficient Service

- India's widest service dealer network
- Kirloskar connect-self-service application
- eFSR-Electronic field service report
- Over 6000 trained service engineers
- Over 600,000 machines under care
- 98%+ parts available at each outlet
- Flexible & economical AMC-Bandhan

EFFICIENT



EFFICIENT



Efficient Network

- Consistent, reliable & long-established
- 250+ expert touch points across India
- 500+ solution oriented professionals
- Uniform customer experience across
- Central system for enquiry to PRF
- Fair trade practices & Price transparency

Efficient Deliveries

- Cost-effective deliveries guaranteed
- Assured 7-day delivery of gensets
- Supports project management system
- Reduced working capital for customer
- Award-winning replenishment model
- Assurance of FRESH products always

EFFICIENT



EFFICIENT



Efficient 24X7 Care

- 24 X 7 operational customer care centre
- Team of over 70 trained & focused exec.
- Tracking every service request till closure
- Centrally maintained CRM for all requests
- Satisfaction call after every SR closure
- Central sales lead tracking system
- Continuous NPS and CDI measurement

We offer products for every segment & take part in the India's growth story.



Infrastructure



Industry



IT/ITES



Hospitality



Health



Realty



Government



Logistics

Kirloskar
Oil Engines

www.kirloskaroilengines.com

Kirloskar Oil Engines Limited

A Kirloskar Group Company

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kirloskar
Oil Engines



TO THOSE WHO
POWER LIFE, WE SAY

MAY THE

POWER

**ALWAYS BE
WITH YOU**



**CPCB IV+
COMPLIANT**

INDIA'S LARGEST
FLEET OF GENSETS

320-750 kVA

SAINI INDIA LTD A SALES CHANNEL PARTNER FOR KIRLOSKAR PRODUCT.

BETTER POWER FOR A *limitless* TOMORROW

SAINI INDIA LTD A SALES CHANNEL PARTNER FOR KIRLOSKAR PRODUCT.

320- 750 kVA

Prime Rating at rated rpm (as per ISO8528)		kVA	320	400	500	625	750
		kW	256	320	400	500	600
Genset Model			KG4-320WS1	KG4-400WS11	KG4-500WS	KG4-625WS	KG4-750WS
Frequency		Hz	50				
Power Factor		lagging	0.8				
Voltage		V	415 (3Ø)				
Governing class (As per ISO 8528 Part-V)			G3				
DG set Noise level at 1 meter		dBA	<75 (Genset with canopy)				
Fuel tank capacity (Standard DG set)		Ltrs	600	850	850	990	990
Weight of genset with canopy (approx.) [^]	Dry	Kg	4090	6950	7200	8300	9700
	Wet	Kg	4200	7150	7400	8450	9950
Overall dimensions of genset [^]	Length	mm	4750	5575	5575	6500	6800
	Width	mm	1700	2125	2125	2125	2300
	Height	mm	2005	2610	2610	2710	2715
Electrical Battery Starting Voltage		Volts-DC	24				
ENGINE							
Engine Model			6SL90ETA 4G3	DV8ETA 4G2	DVBETA 4G3	DV10ETA 4G2	DV12ETA 4G2
Rated output (Prime Continuous rating as per ISO 8528-1)	kW		279.5	360	447.2	561.1	662
	HP		380	490	608	763	900.6
No. of cylinder	Number		6	8	8	10	12
Cubic capacity ²	Ltrs		8.86	15.92	15.92	19.9	23.88
Bore x Stroke	mm		118 x 135	130 x 150	130 x 150	130 x 150	130 x 150
Rated Speed	RPM		1500	1500	1500	1500	1500
Aspiration	NA/TC/TA		TA	TA	TA	TA	TA
Lube Oil change period	hrs.		500				
Lube oil Sump Capacity	Ltrs		27	40	40	50	73
Coolant Capacity	Ltrs		36	63	63	80	175
Adblue/ DEF capacity	Ltrs		45	45 x 2			
ALTERNATOR							
Insulation Class			H				
Alternator Efficiency (at 100% load) 0.8 pf**		%	95.3	93.4	94.8	95.7	94.7
Max Voltage Dip at Full Load 0.8 pf lag			< 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

AdBlue used should follow ISO 22241.

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

Genset kVA 320 to 750 kVA Features

SAINI INDIA LTD A SALES CHANNEL PARTNER FOR KIRLOSKAR PRODUCT.



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-in-class Fluid Efficiency (Fuel & DEF)

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 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, Kirloskar has extended fuel efficiency optimization from 100%, right up to 50% of rated load.

In line with fuel efficiency Kirloskar Genset ensures the better DEF efficiency and accordingly optimized the DEF tank size. Combination of best-in-class fuel efficiency & O2E provides a double advantage.



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

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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

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, PowerFactor
- 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, Earth Fault trip, 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
- Synchronization

KG745 Controller



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.



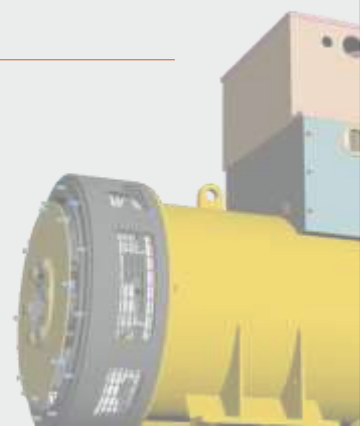
Alternator Features:

Kirloskar Alternator is compact in design & comes with AREP winding and Digital AVR. Auxillary Regulation Excitation Principle (AREP) winding improves the Non-linear load handling capability, Motor starting capacity. Advanced Digital AVR improves the Voltage regulation and Response time.



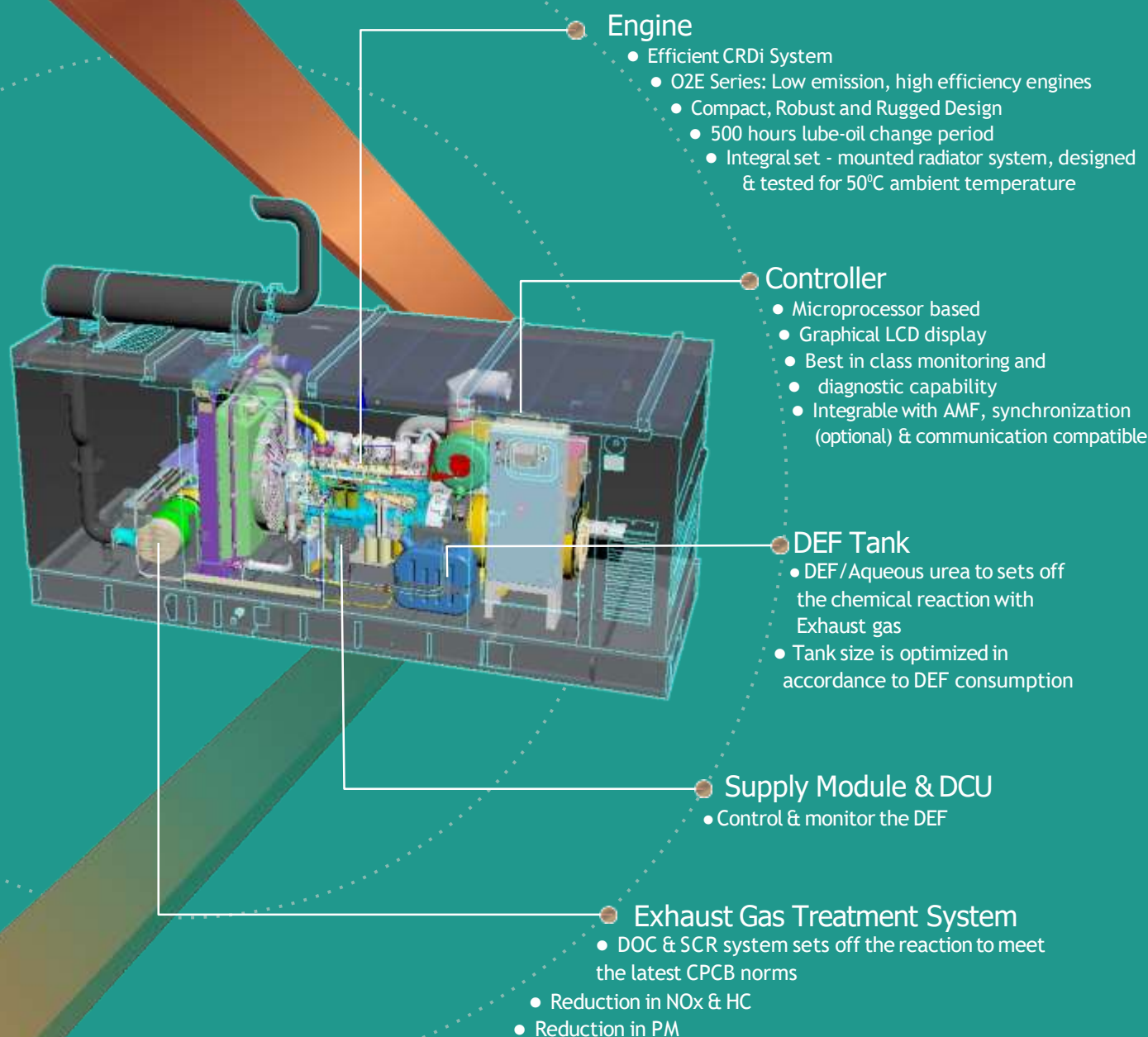
Compact footprint:

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



SAINI INDIA LTD A SALES CHANNEL PARTNER FOR KIRLOSKAR PRODUCT.

Glimpses CPCB IV+ Genset (320-750 KVA)



O2E - Optimal operating efficiency
DEF - Diesel exhaust fluid
DCU - Dosing control unit
DOC - Diesel oxidation catalyst
SCR - Selective catalytic reduction

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