

INDIA'S #1 GENSET BRAND

SL SERIES GENSET 200 - 250 kVA



India's first IOT enabled Genset
The Complete Power Back-up Solution

EFFICIENCY HAS A NEW NAME

kirloskar
GREEN

200 - 250 kVA

Prime Rating at rated rpm (as per ISO8528) ¹		kVA	200	250
		kW	160	200
Genset Model			KG1-200WS	KG1-250WS
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 1Mtr with Genset Canopy		dBA	< 75	
Fuel Consumption [#]	At 100 % Load	Ltrs/hr	45.9	56.9
	At 75 % Load		34.4	42.6
	At 50 % Load		25.2	29.9
Fuel tank capacity		Ltrs	460	460
Weight of genset with canopy (approx.) [§]	Dry	Kg	3900	4100
Overall dimensions of genset [^]	Length	mm	4308	4308
	Width	mm	1710	1710
	Height	mm	2000	2000
Electrical Battery starting voltage		Volts-DC	24	24
ENGINE				
Engine Model (Parent Engine)			6SL1500TA	6SL1500TA
Rated output (Prime Continuous rating as per ISO 8528-1)		kW	183	228
		HP	248	310
No. of cylinder		Number	6	6
Cubic capacity ²		Ltrs	8.86	8.86
Bore x Stroke		mm	118 x 135	118 x 135
Rated Speed		RPM	1500	1500
Aspiration		NA/TC/TA	TA	TA
Lube Oil change period		hrs.	500	500
Lube Oil Sump Capacity		Ltrs	27	27
Coolant Capacity with Radiator		Ltrs	30	32
ALTERNATOR				
Insulation Class			Class H	
Ingress Protection			IP 23	
Alternator Efficiency (at 100% load) 0.8 pf [*]			94.2	94.3
Alternator Efficiency (at 75% load) 0.8 pf [*]			94.5	94.7
Permissible Voltage Dip at Full Load 0.8 pf Lag			≤ 20 %	
Time Permitted to build up rated voltage at Rated RPM			< 3 sec, provided engine should reach rated RPM	
Short Circuit Withstand Time		sec	3 times rated current for < 10 sec	
Overload Withstand Capacity		%	10% Over load for 1 hour once in 12 hours	

Notes

[^] Tolerances Apply

[#] With 0.845 Specific Gravity of diesel (5% Tolerance)

[§] These Weight are for handling & transportation only, ±5 % tolerance apply

^{*} Efficiency of Alternator as per standards IEC60034-1

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

For intermediate ratings, kindly contact nearest Kirloskar office

7 Easy steps for a happy Genset Ownership

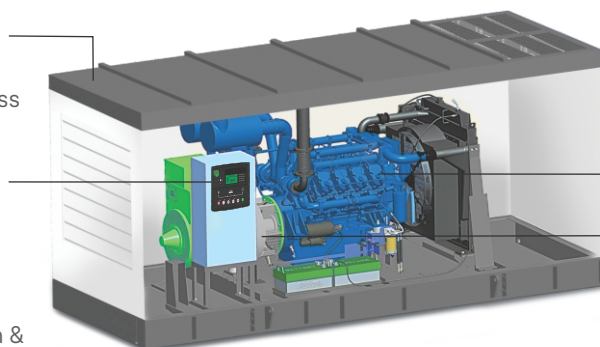
- Insist on a load-study
- Select the Genset rating as per the load-study and with sufficient margin for future load expansion
- Apply site-selection guidelines carefully
- Insist on installation in line with Kirloskar Green guidelines
- Ensure adequate size and proper connection of cables
- Understand the Genset operation & maintenance procedures during commissioning
- Follow routine maintenance protocols through authorized Kirloskar Green service dealers

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



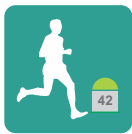
Engine

- 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

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

Engine capacity does matter²



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 Fuel Efficiency



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

O2E Series (Optimal Operating Efficiency):

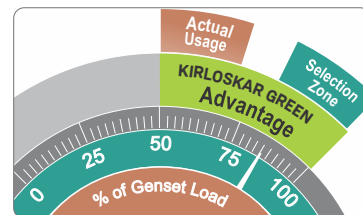
Genset ratings are selected based on the present load and future expansion. Fuel efficiency of most Gensets is optimized at the full rating of the Genset.

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, 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.



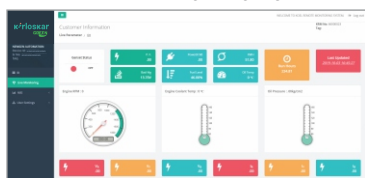
Genset Monitoring at Your Finger Tips



Kirloskar Green 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

Peace-of-mind Ownership



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

Kirloskar Green 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.

State of the art Genset Controller



Kirloskar Green 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, 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

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

Optional Features:

- Modbus Communication
- Synchronization

KG745 Controller



EFFICIENCY. INTEGRATED

A KIRLOSKAR PROMISE

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



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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

Manufacturing



Healthcare



Real Estate



Infrastructure



kirloskar
Oil Engines



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Stamp of
Authorised
Representative