



Enriching Lives

Kirloskar Green Gensets

SL Series

Liquid Cooled Silent Gensets



180 to 250 kVA



Salient Features of Genset

■ Customized Product Range

- Ready to use gensets in SL Series are available in the range from 180 to 250 kVA.
- SL Series gensets are powered by most efficient liquid cooled engines.
- SL Series gensets in multiples are available for synchronization to run in parallel operation to ensure optimum usage of generator set capacity in varying load patterns in place of single larger genset.
- Custom built to ensure your exact power needs.
- SL Series engines are governed by electronic governing for fuel efficiency and optimum performance.

■ Smart Aesthetics

- State-of-the-art competitive design.
- Compact in size with smaller footprint.
- Saves money on installation / space.
- Aesthetically superior and fully integrated weather proof acoustic enclosure.
- Dynamic design with highest quality workmanship acoustics with PU based UV resistant powder coating for superior finish and durability.

■ Highest Reliability

- Superior reliability ensuring un-interrupted, continuous quality power for smooth operation.
- Electronic governor with isochronous and synchronous governing for reliable, stable and paralleling operations.
- Exceedingly rugged and durable design.
- Lower lifecycle cost of ownership.
- Safety against low lub oil, high coolant temperature, over speed, low fuel level and weak battery.
- State-of-the-art technology for trouble free operations in low / high ambient temperature, high humidity and high altitudes.
- State-of-the-art – compact – Micro-processor based fully configurable genset controller suitable for AMF operations with LCD display and event logging.

■ Unmatched Performance

- Low fuel and lub oil consumption ensuring excellent fuel economy and lowest operating cost.
- Low noise and vibration levels.
- High fuel efficiency at part operating loads.
- Long operating life K-cool super plus coolant for better engine cooling/ corrosion free coolant galleries.
- K-oil super for best lubrication performance and engine life.

■ Environment Friendly

- The power to preserve, save environment and the earth – Kirloskar Green Power Ideas.
- Gensets conform to lowest noise pollution norms as laid down by MOEF / CPCB.
- Genset engine conforms with the latest stringent MOEF exhaust emission norms.
- 100% Bio-diesel compatibility with 100% power as option.

■ Maintenance friendly design and Ease of Operation

- Ready to use – plug and use product.
- Dynamic, high performance and weather proof modular design ensuring lowest maintenance cost.
- Easy serviceability for routine, preventive, predictive maintenance, replacement and overhauls.
- Ensures longer maintenance intervals in its class.
- Easy availability of spare parts and service network across the nation.
- Minimum cost for maintenance, spares & services, ensuring lowest operating cost.
- Smart genset monitoring and control system for closely monitoring, metering and protection of the engine and genset performance.
- Competitive Annual Maintenance Contracts through nationwide network of authorised service dealerships.
- Across the Nation CRM network for before in time services.
- Single window services for complete genset.
- Pan India single point AMC options.



KIRLOSKAR
GREEN
POWER IDEAS

SL Series

Kirloskar Green Gensets

Standard Features

■ Engine



- Efficient liquid cooled technology
- Offering a comprehensive range with power output covering from 180 to 250 kVA
- 6 cylinder compact configurations
- Most compact, extremely robust and rugged design
- 500 Hours of longer lub-oil change period
- Lowest fuel consumption in it's class
- Complies with latest emission norms of MOEF
- 100% Bio-diesel compatibility option with 100% power for lower emissions

■ Alternator



- Most efficient CE certified Kirloskar Green Alternator
- Compact design with sealed bearings for longer life and lesser maintenance
- Best in class efficiency
- Positive voltage build-up
- Special windings to reduce harmonics
- Electronic AVR
- High short circuit current capacity upto 300%, ensuring controlled regulation even at variable loads
- Well balanced rotating components and lowest vibration levels
- Epoxy gel coating to suit various environment conditions
- CT fitted alternators for better performance and safety

■ KG 545 Genset Controller



- State-of-the-art, compact Micro-processor based fully configurable genset operating, monitoring, metering and protection control system with LCD display
- Complete safety for gensets on operating faults
- Real time and 100 event logging facility for performance monitoring
- AMF option in the controller as standard scope with control for Mains and DG set circuit breakers
- User friendly operating systems on manual, auto and test modes with soft touch buttons
- Provision for additional 3 digital inputs and 2 digital outputs
- Compatibility for remote monitoring, remote start-stop and BMS options

■ Acoustic Enclosure



- Smart, standardized and dynamic Kirloskar Green Power Ideas modular design for optimum performance and ease of serviceability
- Aesthetically designed weather proof, sound proof acoustic enclosure meeting stringent and latest MOEF noise pollution norms
- PU based powder-coated enclosure, manufactured on high-tech special purpose CNC machines to ensure highest quality on fit-form-finish-function and durability
- Specially designed with adequate air flow to operate at full load, even at 50 deg. C air inlet temperature
- Noise and thermal Insulation material conforms to UL94, HF1 class for flammability
- Green passivated / black ionized corrosion / rust resistant hardware for manufacturing to withstand salt spray and corrosion test as per ASTM B-117
- Designed for low noise, high reliability, lowest vibrations and user friendly ready to use installations

■ Optionals



- Remote monitoring and BMS
- Auto mains failure panel
- Cold starting aid
- Synchronization and Parallel operations of multiple gensets
- Bio-diesel compatibility
- Special air filtration system for dusty atmosphere
- Facility for external agency inspection as per custom and IS standards
- PMG for non-linear load conditions
- Power house design support for varying load pattern

Overall Specifications of SL Series Genset

180 to 250 kVA

DG Set Specifications

Parameters	Unit	Genset Model		
		KG180WS2	KG200WS2	KG250WS1
Prime Rating at 0.8 pf	kVA (kW)	180 (144)	200 (160)	250 (200)
Voltage	V	415	415	415
Frequency	Hz	50	50	50
Overall Dimensions with canopy (L x W x H)	mm	4940 x 1700 x 2050	4940 x 1700 x 2050	4940 x 1700 x 2050
Dry Weight of genset with canopy (Aprox)	kg	3870	3950	4660
Electrical starting system	Volt-DC	24 (2 x 12 V)	24 (2 x 12 V)	24 (2 x 12 V)
Battery Capacity	Ah	2 x 160	2 x 160	2 x 180
DG set Noise level as per CPCB Norms	dBA	< 75	< 75	< 75

Engine Specifications

Parameters	Unit	Engine Model		
		6SL1500TA SR1	6SL1500TA SR2	6SL8800TA
Rated output (Prime rating as per ISO 3046)	kW (hp)	164.8 (224)	184 (250)	228 (310)
No. of cylinders	Nos	6	6	6
Bore x Stroke	mm	118 x 135	118 x 135	118 x 135
Aspiration		TA	TA	TA
Governing Class		Electronic A0	Electronic A0	Electronic A0
SFC at 75% load*	(g/Hp-hr)	148	148	150
SFC at 100% load*	(g/Hp-hr)	149	149	153
Lub oil Consumption	LPH	0.11	0.11	0.14
Lub oil change period**	hrs	500	500	500
Lub oil Sump capacity	Ltrs	24	24	24
Engine coolant capacity	Ltrs	43	43	43

Alternator Specifications

Parameters	Unit	Alternator Model		
		KG 254 M0	KG 254 M1	KG 284 L1
Rating	kVA	180	200	250
Insulation Class		H	H	H
Protection		IP23	IP23	IP23
Time to built up rated voltage at rated RPM	sec	≤ 5	≤ 5	≤ 5
Alternator Efficiency at 75% load	%	93.6	93.9	93.9
Alternator Efficiency at 100% load	%	93	93.5	93.6
Voltage regulation	%	1% with 4% Engine Governing	1% with 4% Engine Governing	1% with 4% Engine Governing
Wave form Distortion at No load & at Non-distorting balance linear Load	%	< 1.8 & < 4	< 1.8 & < 4	< 1.8 & < 4
Permissible transient voltage dip at full load 0.8 pf lag***	%	< 18	< 18	< 18

In view of continuous product updation and design changes, all above specifications and dimensions are subject to change without prior notice.

Notes :

- Genset ratings as per ISO 8528 performance class is G3.
- Prime Power Rating is the maximum power available continuously for a variable electrical load for unlimited number of hours per year, under standard operating conditions.
- For the site conditions other than standard operating conditions, consult KOEL for available prime power.
- *+5 % tolerance as per ISO 3046. For LPH calculation specific gravity of diesel is considered as 0.845.
- All canopy dimensions have tolerance of ± 50 mm.
- ** First oil change at 50 hours.
- ***Permissible transient % voltage dip at full load 0.8 pf lag (alternator tested alone) as per IS 4722.

