



# OPTIPRIME



CPCB IV+ COMPLIANT

117 · 400 · 500 · 640 · 1000 · 1500 · 2020kVA

BETTER POWER  
FOR A

*limitless*  
TOMORROW

A scenic landscape featuring rolling green tea plantations on hills under a clear blue sky. In the background, a large, dark mountain peak rises prominently. The tea fields are arranged in distinct, parallel rows that follow the contours of the hills.

BETTER POWER  
FOR A

*limitless*

T O M O R R O W

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

Kirloskar powering 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.

Discover our Plant with a QR Code Scan.





# OPTIPRIME

117 · 400 · 500 · 640 · 1000 · 1500 · 2020 kVA



• THE VERSATILE INFRASTRUCTURE POWER SOLUTION •



Infrastructure



Industry



IT Sector



Hospitality



Healthcare



Real Estate



Government



Logistics

## TECHNICAL SPECIFICATIONS

Optiprime Genset Technical Specifications

## ENGINE MODEL

|   |       |           |           |          |           |           |           |           |
|---|-------|-----------|-----------|----------|-----------|-----------|-----------|-----------|
| Rated output (Prime continuous ratings as per ISO 8528-1) | kW    | 54.4 x 2  | 183.8 x 2 | 228 x 2  | 279.5 x 2 | 447 x 2   | 662 x 2   | 889 x 2   |
|   | HP    | 74 x 2    | 250 x 2   | 310 x 2  | 380 x 2   | 608 x 2   | 900.6 x 2 | 1210 x 2  |
| Number of Cylinders                                       | No.   | 4 x 2     | 6 x 2     | 6 x 2    | 6 x 2     | 8 x 2     | 12 x 2    | 16 x 2    |
| Cubic Capacity <sup>2</sup>                               | Ltrs. | 3.24 x 2  | 6.48 x 2  | 8.86 x 2 | 8.86 x 2  | 15.92 x 2 | 23.88 x 2 | 31.84 x 2 |
| Lube Oil Change Period                                    | Hrs.  | 500       | 500       | 500      | 500       | 500       | 500       | 500       |
| Lube Oil Sump Capacity                                    | Ltrs. | 10 x 2    | 25 x 2    | 27 x 2   | 27 x 2    | 40 x 2    | 73 x 2    | 130 x 2   |
| Coolant Capacity  | Ltrs. | 12.70 x 2 | 28.9 x 2  | 36.4 x 2 | 36.4 x 2  | 63.2 x 2  | 173.9 x 2 | 180 x 2   |
| AdBlue / DEF Capacity                                     | Ltrs. | NA        | 45 x 2    | 45 x 2   | 45 x 2    | 45 x 4    | 45 x 4    | -         |
| Block Loading Capacity                                    | %     | 60        | 50        | 55       | 50        | 55        | 53        | 55        |

ALTERNATOR

## SYNCHRONIZATION PANEL

### OPTIPRIME 117

CPCB IV+ 58.5 x 2 kVA

|                              |               |
|------------------------------|---------------|
| Incoming Breaker             | Standard      |
| Outgoing Breaker             | Not Available |
| Synchronization Controller** | KG1500        |

### OPTIPRIME 400

CPCB IV+ 200 x 2 kVA

|               |
|---------------|
| Standard      |
| Not Available |
| KG1500        |

### OPTIPRIME 500

CPCB IV+ 250 x 2 kVA

|               |
|---------------|
| Standard      |
| Not Available |
| KG1500        |

### OPTIPRIME 640

CPCB IV+ 320 x 2 kVA

|               |
|---------------|
| Standard      |
| Not Available |
| KG1500        |

### OPTIPRIME 1000

CPCB IV+ 500 x 2 kVA

|               |
|---------------|
| Standard      |
| Not Available |
| KG1500        |

### OPTIPRIME 1500

CPCB IV+ 750 x 2 kVA

|               |
|---------------|
| Standard      |
| Not Available |
| KG1500        |

### OPTIPRIME 2020

CPCB IV+ 1010 x 2 kVA  
Containerized

|          |
|----------|
| Standard |
| Optional |
| KG1500   |

^ 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 IEC 60034-1

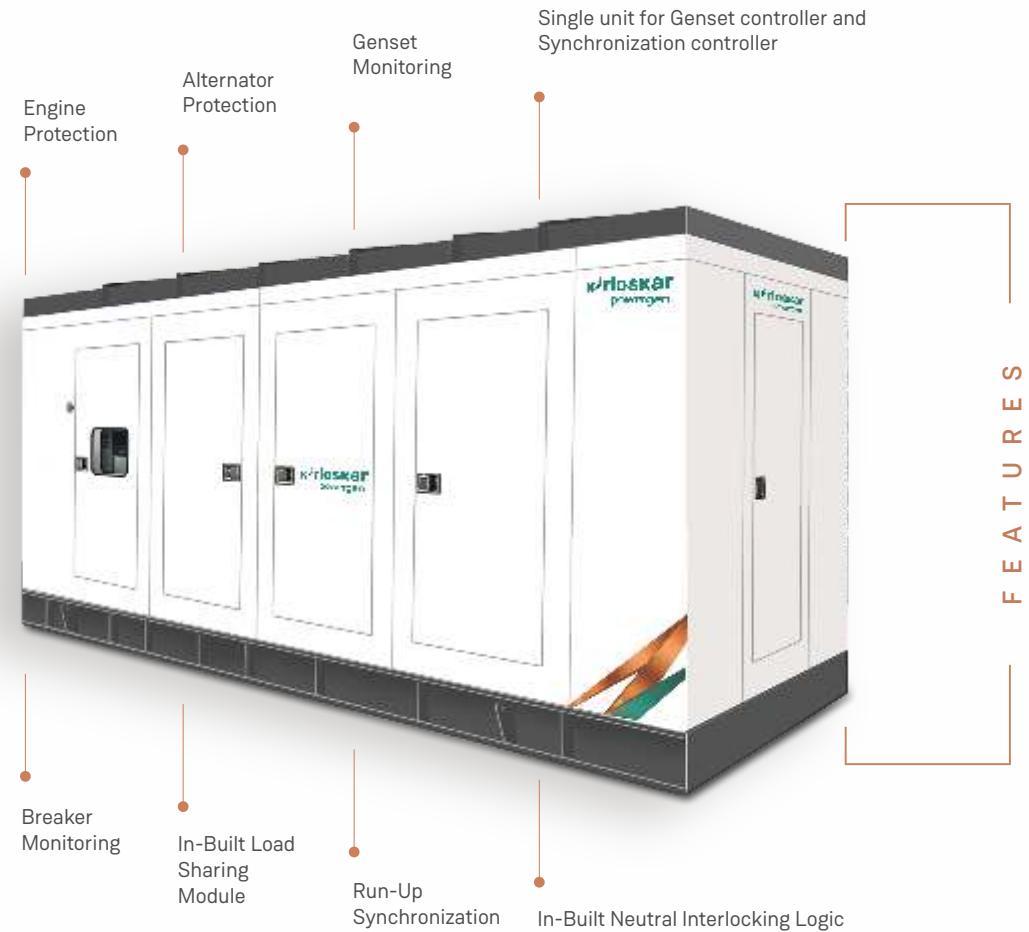
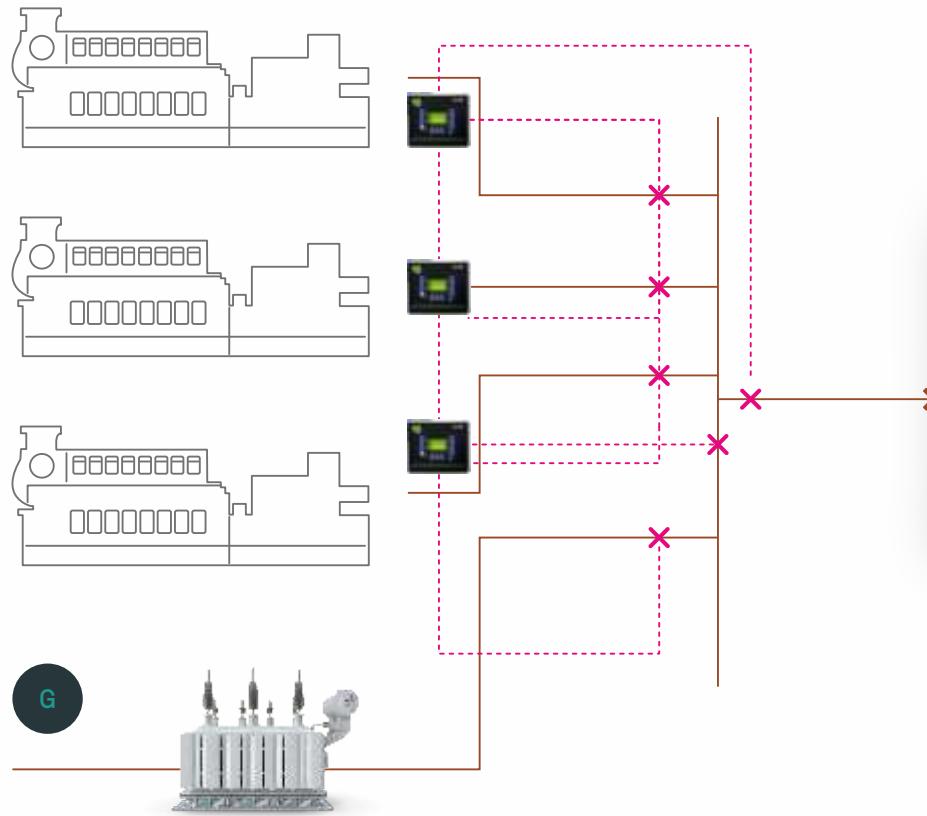
\*\* For operation of outgoing breaker higher version of Synchronization controller is required

For Site Conditions other than standard operating conditions consult Kirloskar Oil Engines Ltd.

For Site specific layout consult Kirloskar Oil Engines Ltd to amend the Genset alignment/configuration

## MULTI GENSETS OPERATIONS

### DIGITALIZATION: KIRLOSKAR KG1500 CONTROLLER



## CUSTOMISED POWER SOLUTIONS FOR DYNAMIC NEEDS

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Businesses worldwide face fluctuating power demands. Whether due to daily variations or specific usage patterns, a flexible power solution is essential.

Kirloskar offers the Optiprime, a customized solution ideal for applications with variable power needs. This innovative system tackles fluctuating loads, reducing fuel consumption and CO<sub>2</sub> emissions by up to 40%.

The Optiprime's centralized control panel with an integrated Power Management System ensures optimal performance. This intelligent system seamlessly switches on or off the two power packs based on real-time load requirements.

The Optiprime's versatility extends to its configuration options. It can be deployed as a single unit, or two separate units can be combined, with prime and standby power functionalities housed within a single enclosure.



### FEATURES

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Patented Hybrid Technology



Optimum Power



Optimal Efficiency



Optimised Fuel Consumption



Reduced Ownership Cost



Twin-Hybrid Power Packs and In-built Synchronisation



Reduced Carbon Dioxide Emissions by 40%



Reduced Nitrous Oxide Emissions by 50%



Better Flexibility



Lower Product Footprint - 20% Reduction in Space

# OPTIPRIME

## FEATURES

### Prime Rating:

Unlimited hours, 10% temporary overload possible.



### Bigger Engine (cc):

Better genset performance and faster load handling

### CPCB IV+ Compliant:

Performance, clean power and reduced costs

### O2E Series

Optimal Operating Efficiency even at partial loads, further reducing costs.

### Common Rail Direct Injection (CRDi):

Advanced fuel injection for better performance, lower emissions, and smoother operation.

### Control Your Power, Anytime, Anywhere:

Monitor your Kirloskar genset remotely, receive alerts, and access service with a tap with our Remote Monitoring System

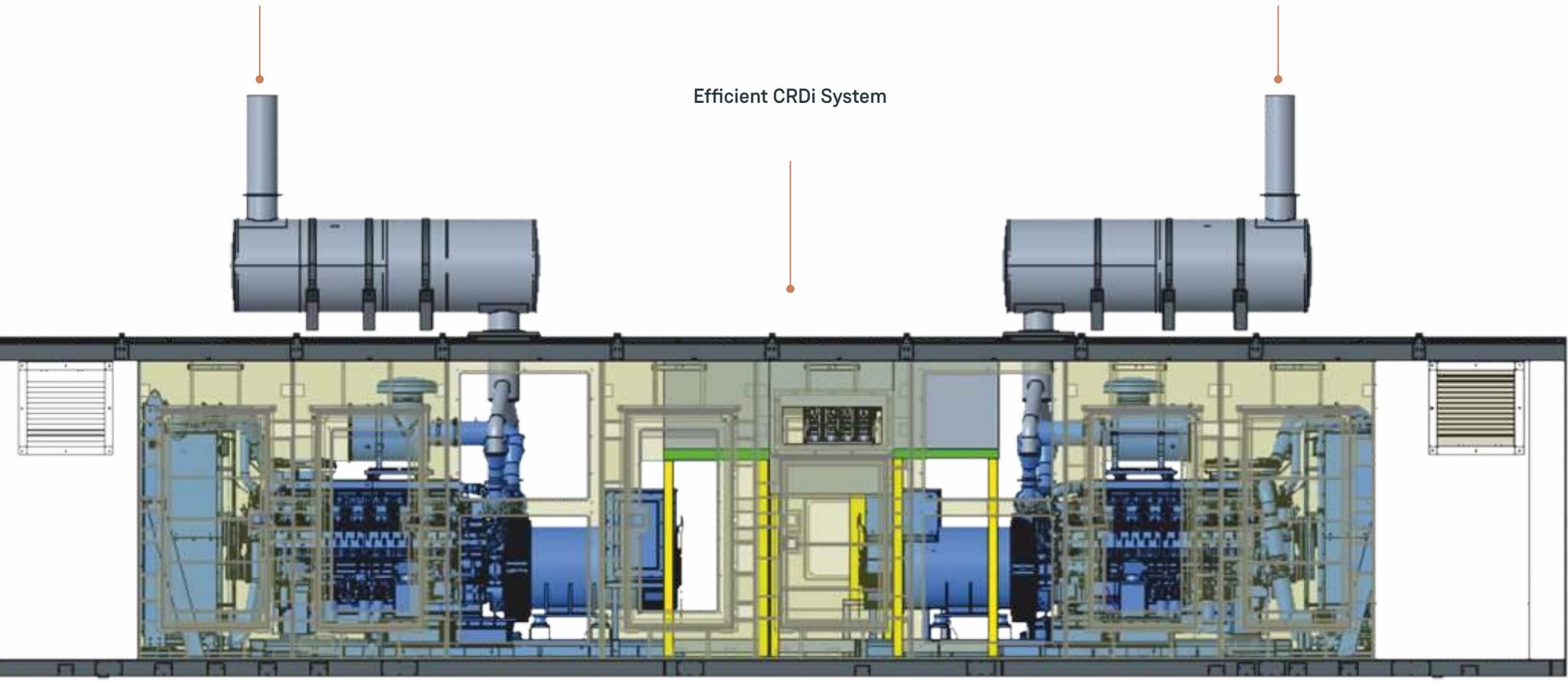
# Beyond Efficiency.

A Closer Look at Cutting-Edge Technology

O2E Series: Low Emission

High Efficiency

Efficient CRDi System



500 Hours Lube Oil Change Period

Compact, Robust and Efficient.

Base Mounted Radiator System



Microprocessor Based Controller



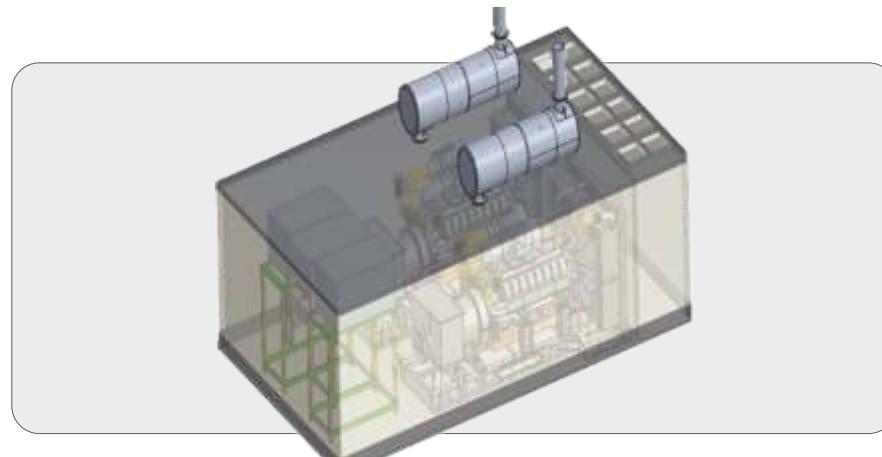
Graphical LCD Display



Advanced Monitoring and Diagnostics

## 2 X POWER: INNOVATION COMBINED WITH OPTIMAL EFFICIENCY

- Optimum Power :
- Allows 25% to 100% loading
- Auto load monitoring and sharing
- Optimum Footprint :
- Reduction in footprint
- Optimum Saving :
- Best in class fuel consumption
- Optimized fuel Consumption at varied load

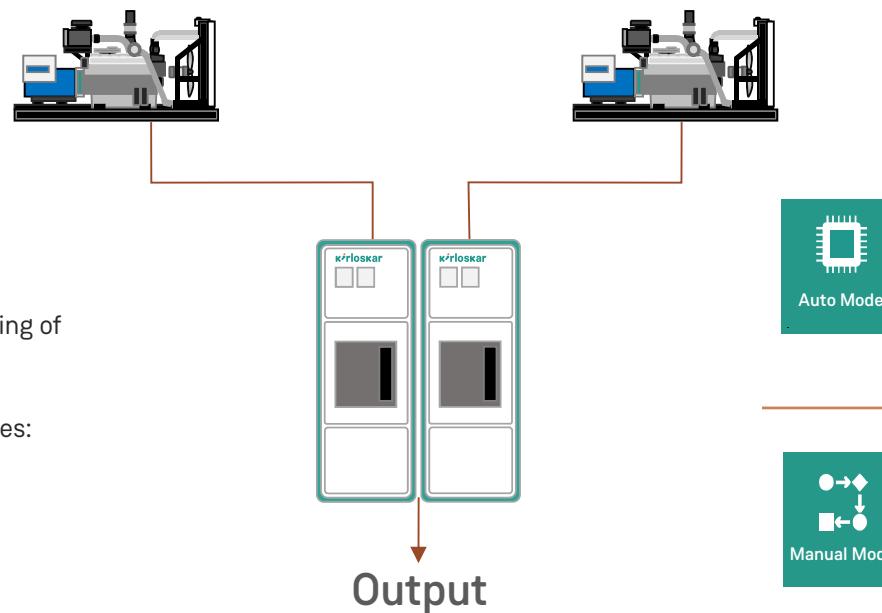


- Multiple configuration options available based on customer and site requirements
  - Common Power output to load
  - Single package solution
  - Power redundancy
  - Enhance Reliability
  - Ease of handling and transportation

## COMBINING INNOVATION WITH EFFICIENCY



- One Master One Slave
- Logic / power sharing with equal rating of kVA & frequency
- Inbuilt AMF Capable Controllers
- DG sets can be operated in two modes:  
Auto mode & Manual mode



- Both DG to start in Synch within 30 sec.
- Load monitoring for 180 sec
- Continuous load monitoring
- Load transfer when load goes down below 70%
- Fully programmable

- Manual Operation possibility in case of urgency
- During service schedule



## 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 PRODUCTS



#### 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 SERVICE



#### 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 DELIVERIES



#### 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 NETWORK



#### 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 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 24X7 CARE

- 24x7 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

#### Efficient 24x7 Care

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



Infrastructure



Industry



IT/ITES



Hospitality



Health



Reality



Government



Logistics



SHAPING THE FUTURE.  
DELIVERING POWER GLOBALLY.



INGENIOUS DESIGN.  
UNMATCHED PERFORMANCE.

KIRLOSKAR OIL ENGINES LIMITED  
A Kirloskar Group Company

Regd. Office: 13, Laxmanrao Kirloskar Road,  
Khadki, Pune, Maharashtra 411 003  
INDIA



- Tel: +91 (20) 2581 0341
- Fax: +91 (20) 2581 3208, 2581 0209
- Helpline: +91 8806 33 44 33
- koel.helpdesk@kirloskar.com



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