FOR TOMORROW

OPTIPRIME

CPCB IV+ COMPLIANT

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

BETTER POWER FOR A LIMITLESS TOMORROW
BETTER POWER FOR A LIMITLESS TOMORROW
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.

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.
THE VERSATILE INFRASTRUCTURE POWER SOLUTION

Infrastructure  Industry  IT Sector  Hospitality  Healthcare  Real Estate  Government  Logistics

117 • 400 • 500 • 640 • 1000 • 1500 • 2020 kVA
## TECHNICAL SPECIFICATIONS

### Optiprime Genset Technical Specifications

<table>
<thead>
<tr>
<th></th>
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<td>kW</td>
<td>54.4 x 2</td>
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<td>45 x 2</td>
<td>45 x 4</td>
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<tr>
<td>%</td>
<td>60</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
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### Fuel Consumption

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<tr>
<td>Ltrs./Hr</td>
<td>21.6</td>
<td>91.4</td>
<td>106</td>
<td>133</td>
<td>207</td>
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<td>Ltrs.</td>
<td>165 x 2</td>
<td>790</td>
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<td>91.4</td>
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<td>170</td>
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<td>58</td>
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<td>35</td>
<td>35</td>
<td>56</td>
<td>86</td>
<td>111.1</td>
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<tr>
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<td>207</td>
<td>500 x 2</td>
<td>870 x 2</td>
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<td>18500</td>
<td>18900</td>
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<td>240</td>
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<td>13786</td>
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<td>18900</td>
<td>26000</td>
<td>2438</td>
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<td>8100</td>
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<td>11200</td>
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<td>1700</td>
<td>2125</td>
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<td>3655</td>
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### Overall dimensions of Genset

<table>
<thead>
<tr>
<th></th>
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<th></th>
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<tbody>
<tr>
<td>Length (mm)</td>
<td>2900</td>
<td>7500</td>
<td>8500</td>
<td>8500</td>
<td>11200</td>
<td>12120</td>
<td>12192</td>
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<tr>
<td>Width (mm)</td>
<td>2100</td>
<td>1450</td>
<td>1700</td>
<td>1700</td>
<td>2125</td>
<td>2300</td>
<td>2438</td>
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<tr>
<td>Height (mm)</td>
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<td>1900</td>
<td>2042</td>
<td>2042</td>
<td>2655</td>
<td>2713</td>
<td>2895</td>
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<tr>
<td>Height (With Silencer) (mm)</td>
<td>2730</td>
<td>2487</td>
<td>2487</td>
<td>2487</td>
<td>3381</td>
<td>3381</td>
<td>-</td>
</tr>
<tr>
<td>Height (Without Silencer) (mm)</td>
<td>2730</td>
<td>2487</td>
<td>2487</td>
<td>2487</td>
<td>3381</td>
<td>3381</td>
<td>-</td>
</tr>
</tbody>
</table>

### Genset Alignment / Configuration

|--------------|--------------|--------------|--------------|--------------|-------------|--------------|-------------|
**SYNCHRONIZATION PANEL**

<table>
<thead>
<tr>
<th>In-Build Breaker</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outgoing Breaker</td>
<td>Not Available</td>
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<tr>
<td>Synchronization Controller**</td>
<td>KG1500</td>
</tr>
</tbody>
</table>

^ Tolerences 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

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**MULTI GENSETS OPERATIONS**

**DIGITALIZATION: KIRLOSKAR KG1500 CONTROLLER**

![Diagram of Genset controller and synchronization panel](image)

- Engine Protection
- Alternator Protection
- Genset Monitoring
- Breaker Monitoring
- In-Built Load Sharing Module
- Run-Up Synchronization
- In-Built Neutral Interlocking Logic

**FEATURES**

- **OPTIPRIME 117**
  - CPCB IV+ 58.5 x 2 kVA
  - Standard

- **OPTIPRIME 400**
  - CPCB IV+ 200 x 2 kVA
  - Standard

- **OPTIPRIME 500**
  - CPCB IV+ 250 x 2 kVA
  - Standard

- **OPTIPRIME 640**
  - CPCB IV+ 500 x 2 kVA
  - Standard

- **OPTIPRIME 1000**
  - CPCB IV+ 750 x 2 kVA
  - Standard

- **OPTIPRIME 1500**
  - CPCB IV+ 1500 x 2 kVA
  - Standard

- **OPTIPRIME 2020**
  - CPCB IV+ 1010 x 2 kVA
  - Standard

- **OPTIPRIME 400**
  - CPCB IV+ 200 x 2 kVA
  - Standard

- **OPTIPRIME 640**
  - CPCB IV+ 500 x 2 kVA
  - Standard

- **OPTIPRIME 1000**
  - CPCB IV+ 750 x 2 kVA
  - Standard

- **OPTIPRIME 1500**
  - CPCB IV+ 1500 x 2 kVA
  - Standard

- **OPTIPRIME 2000**
  - CPCB IV+ 1010 x 2 kVA
  - Standard

- **OPTIPRIME 4000**
  - CPCB IV+ 5000 x 2 kVA
  - Standard

- **OPTIPRIME 6400**
  - CPCB IV+ 7500 x 2 kVA
  - Standard

- **OPTIPRIME 10000**
  - CPCB IV+ 10000 x 2 kVA
  - Standard

- **OPTIPRIME 15000**
  - CPCB IV+ 15000 x 2 kVA
  - Standard

- **OPTIPRIME 20200**
  - CPCB IV+ 20200 x 2 kVA
  - Standard

Note: 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.
CUSTOMISED POWER SOLUTIONS FOR DYNAMIC NEEDS

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 CO2 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**

- 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
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.

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.

O2E Series
Optimal Operating Efficiency even at partial loads, further reducing costs.
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
**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

**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
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 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
- FSR-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 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 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

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