



**Global Solution Provider**



**IOT enabled Genset**

The Complete Power Back-up Solution

EFFICIENCY HAS A NEW NAME

**K\*roskar**  
**GREEN**

## Kirloskar Green Power Back-Up Solution

Kirloskar Green is pioneer in digital power back-up solution, designed for the users of tomorrow. Kirloskar Green promises world class performance with world class features such as robust design, digital connectivity, ultimate convenience of use, smart user interface, superior looks and one-stop solution for its esteemed customers.

### Ultimate Convenience with AMF

Kirloskar Green gensets comes with an Auto Main Failure panel which are specifically designed to deliver ultimate convenience to user. With mains power failure, this panel automatically starts the genset and once the mains power is restored this panel switch off the genset, providing hassle free experience with running cost optimization. This ensures uninterrupted power supply all the time.

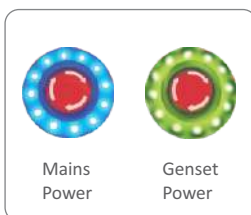
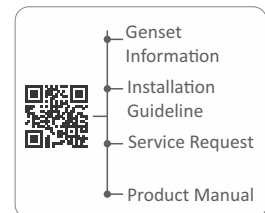


### Genset Monitoring at Your Finger Tips

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.

### QR Code Enabled Genset

Kirloskar Green gensets are first in the industry to introduce QR code enabled Genset. It provides genset relevant information to user on a single scan. This QR code can also be used for accessing product catalogue or raising product service requests. So now all the information of your genset is a scan away.



### Status Indicator

Kirloskar Green gensets comes with a genset indicator which will help user understand the genset running status from a distance with just a glance. The genset status indicator is multicolour with each colour indicating a separate status of your genset. Green light indicates load is on Genset and blue light indicates that load is on mains power.

### Aesthetically Enhanced Genset

Kirloskar Green Gensets are aesthetically enhanced range of gensets with improved product life. It comes with a bolt-less designed canopy which along with seamless appearance minimises the canopy deterioration. The new attractive colour scheme makes Kirloskar Green gensets more vibrant and green decals reminds of Kirloskar commitment to efficiency in conservation & going green in everything we do.



### Single Point Of Ownership

Kirloskar Green provides a single point ownership of your complete power back-up ecosystem. These systems are designed to work in coherence with each other and hence are capable of providing a seamless experience to customers. With wide network coverage Kirloskar Green provides a comprehensive warranty for all components of your power back-up ecosystem.



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## PETROL & DIESEL Kirloskar Green PORTABLE GENSETS

### Technical Specifications 2.1 - 5 kVA

| PARAMETERS   |               | UNIT    | DIESEL GENSET                                 |                       |                 | PETROL GENSET   |                  |                  |
|--|---------------|---------|---|-----------------------|-----------------|-----------------|------------------|------------------|
| Rated Output at 230V / 50Hz                            |               | kVA     | 3.5   | 5                     | 5               | 2.4             | 3.3              | 5 <sup>\$</sup>  |
| Rated Output at 230V / 50Hz                            |               | kW      | 2.8   | 4                     | 4               | 2.1             | 3                | 4                |
| Genset model   |               |         | CC1-3.5AS4 <sup>#</sup>                       | CC1-5AS4 <sup>#</sup> | CC1-5AS2        | KCC-P-2.1 AS    | KCC-P-3.0 AS     | KCC-P-4.0 AS     |
| Rated current at Unity PF                              |               | A       | 12.17   | 17.39                 | 17.39           | 9.13            | 13               | 17.39            |
| Voltage  |               | V       | 230V, Single phase (with AVR type technology) |                       |                 |                 |                  |                  |
| Noise level (1M) - for reference                       |               | dBA     | ≤75   | ≤75                   | ≤70             | 71              | 71               | 71               |
| Fuel consumption*                                      | At 100 % load | Ltrs/hr | 1.11  | 1.5                   | 1.5             | 1.29            | 1.9              | 2.7              |
|  | At 75 % load  |         | 0.93  | 1.2                   | 1.2             | 1.09            | 1.5              | 2.1              |
|  | At 50 % load  |         | 0.78  | 0.9                   | 0.9             | 0.84            | 1.3              | 1.6              |
| Fuel tank capacity                                     |               | Ltrs    | 12.5  | 12.5                  | 13              | 6.5             | 12.5             | 12.5             |
| Overall dimensions of genset (L x W x H) <sup>^</sup>  |               | mm      | 1150 x 560 x 840                              | 1150 x 560 x 840      | 970 x 580 x 970 | 950 x 510 x 650 | 1045 x 550 x 735 | 1045 x 550 x 735 |
| Weight of genset with canopy approx. <sup>^</sup>      | Dry           | kg      | 190   | 190                   | 190             | 110             | 129              | 145              |
| ENGINE   |               |         |   |                       |                 |                 |                  |                  |
| Engine model   |               |         | CC418 G1                                      | CC418 G1              | CC418 G1        | CCP196          | CCP302           | CCP389           |
| Rated output (Prime continuous rating as per ISO 3046) | kW            |         | 5.5   | 5.5                   | 5.5             | 2.9             | 4.2              | 5.6              |
|  | HP            |         | 7.47  | 7.47                  | 7.47            | 3.94            | 5.7              | 7.6              |
| Cubic capacity   |               | cc      | 418   | 418                   | 418             | 196             | 302              | 389              |
| Lube oil change period                                 |               | Hrs     | 200   | 200                   | 200             | 100             | 100              | 100              |
| Lube oil sump capacity                                 |               | Ltrs    | 1.65  | 1.65                  | 1.65            | 0.6             | 1.1              | 1.1              |

### Why get satisfied with power back-up of 4 lights & 4 fans ?

With Kirloskar Green Gensets ensure non stop comfort of wide range of appliances



COMPUTER /  
LAPTOP



LED  
TELEVISION



WASHING  
MACHINE



AIR  
CONDITIONER



REFRIGERATOR



COLD DRINK  
REFRIGERATOR



DEEP  
FREEZER

<sup>\$</sup> Maximum output for limited time.

<sup>#</sup> Genset model will be available in 4 wheel configuration.

<sup>\*</sup> Specific gravity of diesel to be considered as 0.845 and for petrol 0.775 for LPH calculations (+5% tolerance on LPH) for well run engines only.

<sup>^</sup> All canopy dimensions have tolerance of ± 50 mm.

<sup>^</sup> Width of genset considered without base plate lifting hook.

<sup>^</sup> Genset weight tolerance +50 Kg.

- All genset ratings are CPCB compliant.
- Above Gensets are single cylinder, air cooled with 50Hz frequency, 230V single phase, 12V battery and 3000 rpm as standard features.
- For Air conditioning load, kindly contact authorised Kirloskar Oil Engines Ltd sales expert.

## 5 - 160 kVA

| PARAMETERS  |                  | UNIT    | 5 to 12.5kVA |           |          |          |
|---|------------------|---------|--------------|-----------|----------|----------|
| Prime Rating at 0.8 pf                                    |                  | kVA     | 5            | 7.5       | 10       | 12.5     |
|   |                  | kW      | 4            | 6         | 8        | 10       |
| Voltage   |                  | V       | 415          | 415       | 415      | 415      |
| Frequency   |                  | Hz      | 50           | 50        | 50       | 50       |
| Overall Dimensions with canopy^                           | Length           | mm      | 1310         | 1310      | 1760     | 1760     |
|   | Width            | mm      | 810          | 810       | 820      | 820      |
|   | Hight            | mm      | 1330         | 1330      | 1330     | 1330     |
| Dry Weight of genset with canopy^                         |                  | kg.     | 670          | 680       | 750      | 840      |
| Electrical starting system                                |                  | Volt-DC | 12V          | 12V       | 12 V     | 12V      |
| Battery Capacity  |                  | Ah      | 1x65         | 1x65      | 1x65     | 1x65     |
| DG set Noise level as per CPCB Norms                      |                  | dBA     | <75          | <75       | <75      | <75      |
| ENGINE SPECIFICATIONS                                     |                  |         |              |           |          |          |
| Parameters  | Engine Model     |         | EA10 G1      | EA10G1    | EA16G1   | EA16G1   |
|   | Unit             |         |              |           |          |          |
| Rated output (prime rating as per ISO 3046)               | kW               |         | 7.3          | 7.3       | 11.8     | 11.8     |
|   | HP               |         | 10           | 10        | 16       | 16       |
| No. of cylinder   | Nos.             |         | 1            | 1         | 2        | 2        |
| Bore x Stroke   | mm               |         | 102 x 116    | 102 x 116 | 95 x 110 | 95 x 110 |
| Aspiration  |                  |         | NA           | NA        | NA       | NA       |
| Governing Class   |                  |         | G2           | G2        | G2       | G2       |
| Fuel Consumption at 100% load*                            | ltr/hr           |         | 1.6          | 2.21      | 3        | 3.45     |
| Fuel Consumption at 75% load*                             | ltr/hr           |         | 1.3          | 1.62      | 2.4      | 2.65     |
| Lub oil Sump capacity                                     | Ltrs             |         | 3.5          | 3.5       | 6.5      | 6.5      |
| Engine coolant capacity                                   | Ltrs             |         | NA           | NA        | NA       | NA       |
| ALTERNATOR SPECIFICATIONS                                 |                  |         |              |           |          |          |
| Parameters  | Alternator Model |         | KG40 C0      | KG40 C1   | KG40 C2  | KG40 D   |
|   | Unit             |         |              |           |          |          |
| Rating  | kVA              |         | 5            | 7.5       | 10       | 12.5     |
| Insulation Class  |                  |         | H            | H         | H        | H        |
| Ingress Protection  |                  |         | IP23         | IP23      | IP23     | IP23     |
| Time to built up rated voltage at rated RPM               | sec              |         | <5           | <5        | <5       | <5       |
| Alternator Efficiency at 100% load                        | %                |         | 80.5         | 82.5      | 81.3     | 84.9     |
| Alternator Efficiency at 75% load                         | %                |         | 81.1         | 83.4      | 82.1     | 85.1     |
| Voltage regulation  | %                |         | ±1           | ±1        | ±1       | ±1       |
| Permissible transient voltage dip at full load 0.8 pf lag | %                |         | <20          | <20       | <20      | <20      |



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## 15 - 62.5 kVA

| PARAMETERS  |                  | UNIT    | 15 to 62.5 kVA |         |          |           |           |         |
|---|------------------|---------|----------------|---------|----------|-----------|-----------|---------|
| Prime Rating at 0.8 pf                                    |                  | kVA     | 15             | 20      | 25       | 30        | 40        | 62.5    |
|   |                  | kW      | 12             | 16      | 20       | 24        | 32        | 50      |
| Voltage   |                  | V       | 415            | 415     | 415      | 415       | 415       | 415     |
| Frequency   |                  | Hz      | 50             | 50      | 50       | 50        | 50        | 50      |
| Overall Dimensions with canopy^                           | Length           | mm      | 1740           | 2205    | 2500     | 2500      | 2750      | 2900    |
|   | Width            | mm      | 1050           | 950     | 950      | 950       | 1050      | 1100    |
|   | Hight            | mm      | 1474           | 1294    | 1294     | 1294      | 1493      | 1581    |
| Dry Weight of genset with canopy^                         |                  | kg.     | 810            | 880     | 1040     | 1040      | 1180      | 1470    |
| Electrical starting system                                |                  | Volt-DC | 12V            | 12V     | 12 V     | 12V       | 12V       | 12V     |
| Battery Capacity  |                  | Ah      | 1x88           | 1x88    | 1x88     | 1x88      | 1x100     | 1x100   |
| DG set Noise level as per CPCB Norms                      |                  | dBA     | <75            | <75     | <75      | <75       | <75       | <75     |
| <b>ENGINE SPECIFICATIONS</b>                              |                  |         |                |         |          |           |           |         |
| Parameters  | Engine Model     |         | HA294 SRIII    | 2R1040  | 3R1040   | 3R1040    | 4R1040    | 4R1040T |
|   | Unit             |         |                |         |          |           |           |         |
| Rated output (prime rating as per ISO 3046)               | kW               |         | 15.09          | 19.8    | 30.9     | 30.9      | 41.2      | 61      |
|   | HP               |         | 20.5           | 27      | 42       | 42        | 56        | 83      |
| No. of cylinder   | Nos.             |         | 2              | 2       | 3        | 3         | 4         | 4       |
| Bore x Stroke   | mm               |         | 100x120        | 105x120 | 105x120  | 105x120   | 105x120   | 105x120 |
| Aspiration  |                  |         | NA             | NA      | NA       | NA        | NA        | T       |
| Governing Class   |                  |         | G2             | G2      | G2       | G2        | G2        | G2      |
| Fuel Consumption at 100% load*                            | ltr/hr           |         | 4.27           | 5.33    | 7.69     | 7.69      | 9.76      | 14.6    |
| Fuel Consumption at 75% load*                             | ltr/hr           |         | 3.29           | 4.08    | 5.82     | 5.82      | 7.45      | 11.1    |
| Lub oil Sump capacity                                     | Ltrs             |         | 4.5            | 5.5     | 6        | 6         | 10        | 10      |
| Engine coolant capacity                                   | Ltrs             |         | NA             | 4       | 4.7      | 4.7       | 6         | 6       |
| <b>ALTERNATOR SPECIFICATIONS</b>                          |                  |         |                |         |          |           |           |         |
| Parameters  | Alternator Model |         | KG40 E         | KG40 H  | KG42.3 B | KG28 VL4A | KG32 3S4B | KG423 K |
|   | Unit             |         |                |         |          |           |           |         |
| Rating  | kVA              |         | 15             | 20      | 25       | 30        | 40        | 62.5    |
| Insulation Class  |                  |         | H              | H       | H        | H         | H         | H       |
| Ingress Protection  |                  |         | IP23           | IP23    | IP23     | IP23      | IP23      | IP23    |
| Time to built up rated voltage at rated RPM               | sec              |         | <5             | <5      | <5       | <5        | <5        | <5      |
| Alternator Efficiency at 100% load                        | %                |         | 83.5           | 87.1    | 88.8     | 89        | 89.2      | 91      |
| Alternator Efficiency at 75% load                         | %                |         | 84.9           | 88.5    | 89.8     | 90.5      | 90.8      | 91.8    |
| Voltage regulation  | %                |         | ±1             | ±1      | ±1       | ±1        | ±1        | ±1      |
| Permissible transient voltage dip at full load 0.8 pf lag | %                |         | <20            | <20     | <20      | <20       | <20       | <20     |



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## 82.5 - 160 kVA

| PARAMETERS  |                  | UNIT    | 82.5 to 160 kVA |           |          |          |
|---|------------------|---------|-----------------|-----------|----------|----------|
| Prime Rating at 0.8 pf                                    |                  | kVA     | 82.5            | 125       | 125 HD   | 160      |
|   |                  | kW      | 66              | 100       | 100      | 128      |
| Voltage   |                  | V       | 415             | 415       | 415      | 415      |
| Frequency   |                  | Hz      | 50              | 50        | 50       | 50       |
| Overall Dimensions with canopy^                           | Length           | mm      | 3200            | 3200      | 3500     | 4000     |
|   | Width            | mm      | 1100            | 1300      | 1300     | 1500     |
|   | Hight            | mm      | 1595            | 1795      | 1890     | 1915     |
| Dry Weight of genset with canopy^                         |                  | kg.     | 1710            | 2090      | 2520     | 2730     |
| Electrical starting system                                |                  | Volt-DC | 12 V            | 12V       | 12V      | 12V      |
| Battery Capacity  |                  | Ah      | 1x100           | 1 x 120   | 1 x 120  | 1x150    |
| DG set Noise level as per CPCB Norms                      |                  | dBA     | <75             | <75       | <75      | <75      |
| ENGINE SPECIFICATIONS                                     |                  |         |                 |           |          |          |
| Parameters  | Engine Model     |         | 4R1040TA        | 4K1080TA1 | 6R1080TA | 6K1080TA |
|   | Unit             |         |                 |           |          |          |
| Rated output (prime rating as per ISO 3046)               | kW               |         | 77.2            | 114.7     | 113.2    | 147.2    |
|   | HP               |         | 105             | 156       | 154      | 200      |
| No. of cylinder   | Nos.             |         | 4               | 4         | 6        | 6        |
| Bore x Stroke   | mm               |         | 105x120         | 105x125   | 105x125  | 105x125  |
| Aspiration  |                  |         | TA              | TA        | TA       | TA       |
| Governing Class   |                  |         | G2              | G2        | G2       | G2       |
| Fuel Consumption at 100% load*                            | ltr/hr           |         | 18.33           | 26.76     | 27.09    | 34       |
| Fuel Consumption at 75% load*                             | ltr/hr           |         | 13.84           | 20.74     | 21.08    | 25       |
| Lub oil Sump capacity                                     | Ltrs             |         | 10              | 14        | 14       | 18       |
| Engine coolant capacity                                   | Ltrs             |         | 6               | 7.5       | 28       | 10       |
| ALTERNATOR SPECIFICATIONS                                 |                  |         |                 |           |          |          |
| Parameters  | Alternator Model |         | KG44.3 B2       | KG443 D   | KG443 D  | KG44.3 H |
|   | Unit             |         |                 |           |          |          |
| Rating  | kVA              |         | 82.5            | 125       | 125      | 160      |
| Insulation Class  |                  |         | H               | H         | H        | H        |
| Ingress Protection  |                  |         | IP23            | IP23      | IP23     | IP23     |
| Time to built up rated voltage at rated RPM               | sec              |         | <5              | <5        | <5       | <5       |
| Alternator Efficiency at 100% load                        | %                |         | 91.4            | 92.6      | 92.6     | 92.8     |
| Alternator Efficiency at 75% load                         | %                |         | 92.5            | 93.2      | 93.2     | 93.3     |
| Voltage regulation  | %                |         | ±1              | ±1        | ±1       | ±1       |
| Permissible transient voltage dip at full load 0.8 pf lag | %                |         | <20             | <20       | <20      | <20      |

\* Specific gravity of diesel to be considered as 0.845 and for petrol 0.775 for LPH calculations (+5% tolerance on LPH) for well run engines only.

^ All canopy dimensions have tolerance of ± 50 mm.

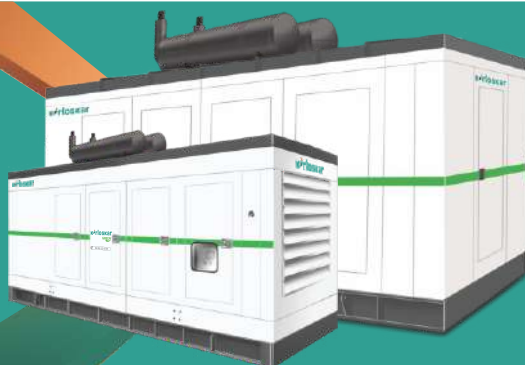
^ Width of genset considered without base plate lifting hook.

^ Genset weight tolerance +50 Kg.

- In the view of continuous product updation and design changes, all above specifications & dimensions are subject to change without prior notice.
- 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.
- Genset ratings are as per ISO 8528.
- For the site conditions other than standard operating conditions, consult Kirloskar Oil Engines Ltd. for available prime power.
- All genset ratings are CPCB compliant.

## 200 - 250 kVA

| PARAMETERS  |                  | UNIT    | 200 to 250 kVA |           |
|---|------------------|---------|----------------|-----------|
| Prime Rating at 0.8 pf                                    |                  | kVA     | 200            | 250       |
|   |                  | kW      | 160            | 200       |
| Voltage   |                  | V       | 415            | 415       |
| Frequency   |                  | Hz      | 50             | 50        |
| Overall Dimensions with canopy^                           | Length           | mm      | 4340           | 4340      |
|   | Width            | mm      | 1740           | 1740      |
|   | Hight            | mm      | 1970           | 1975      |
| Dry Weight of genset with canopy^                         |                  | kg.     | 3900           | 4010      |
| Electrical starting system                                |                  | Volt-DC | 24V            | 24V       |
| Battery Capacity  |                  | Ah      | 2x150          | 2x150     |
| DG set Noise level as per CPCB Norms                      |                  | dBA     | <75            | <75       |
| ENGINE SPECIFICATIONS                                     |                  |         |                |           |
| Parameters  | Engine Model     |         | 6SL1500TASR2   | 6SL8800TA |
|   | Unit             |         |                |           |
| Rated output (prime rating as per ISO 3046)               | kW               |         | 184            | 228       |
|   | HP               |         | 250            | 310       |
| No. of cylinder   | Nos.             |         | 6              | 6         |
| Bore x Stroke   | mm               |         | 118x135        | 118x135   |
| Aspiration  |                  |         | TA             | TA        |
| Governing Class   |                  |         | G2             | G2        |
| Fuel Consumption at 100% load*                            | ltr/hr           |         | 42.3           | 55.12     |
| Fuel Consumption at 75% load*                             | ltr/hr           |         | 31.94          | 42.22     |
| Lub oil Sump capacity                                     | Ltrs             |         | 27             | 27        |
| Engine coolant capacity                                   | Ltrs             |         | 13             | 13        |
| ALTERNATOR SPECIFICATIONS                                 |                  |         |                |           |
| Parameters  | Alternator Model |         | KG38 1S4A      | KG38 M4A  |
|   | Unit             |         |                |           |
| Rating  | kVA              |         | 200            | 250       |
| Insulation Class  |                  |         | H              | H         |
| Ingress Protection  |                  |         | IP23           | IP23      |
| Time to built up rated voltage at rated RPM               | sec              |         | <5             | <5        |
| Alternator Efficiency at 100% load                        | %                |         | 93.5           | 93.6      |
| Alternator Efficiency at 75% load                         | %                |         | 93.9           | 93.9      |
| Voltage regulation  | %                |         | ±1             | ±1        |
| Permissible transient voltage dip at full load 0.8 pf lag | %                |         | <20            | <20       |



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## 320- 625 kVA

| PARAMETERS                           |        | UNIT    | 320 to 625 kVA |       |       |       |       |       |
|--------------------------------------|--------|---------|----------------|-------|-------|-------|-------|-------|
| Prime Rating at 0.8 pf               |        | kVA     | 320            | 380   | 400   | 500   | 600   | 625   |
|                                      |        | kW      | 256            | 304   | 320   | 400   | 480   | 500   |
| Voltage                              |        | V       | 415            | 415   | 415   | 415   | 415   | 415   |
| Frequency                            |        | Hz      | 50             | 50    | 50    | 50    | 50    | 50    |
| Overall Dimensions with canopy^      | Length | mm      | 5700           | 5700  | 5700  | 6200  | 6660  | 6660  |
|                                      | Width  | mm      | 2000           | 2000  | 2000  | 2000  | 2000  | 2000  |
|                                      | Hight  | mm      | 2555           | 2555  | 2555  | 2555  | 2705  | 2705  |
| Dry Weight of genset with canopy^    |        | kg.     | 5200           | 6000  | 6000  | 6655  | 7500  | 7500  |
| Electrical starting system           |        | Volt-DC | 24V            | 24V   | 24V   | 24V   | 24V   | 24V   |
| Battery Capacity                     |        | Ah      | 2x180          | 2x180 | 2x180 | 2x180 | 2x180 | 2x180 |
| DG set Noise level as per CPCB Norms |        | dBA     | < 75           | < 75  | < 75  | < 75  | < 75  | < 75  |

### ENGINE SPECIFICATIONS

| Parameters                                  | Engine Model | DV8 SR1   | DV8 SR2   | DV8       | DV10      | DV12      | DV12 SR1  |
|---|--------------|-----------|-----------|-----------|-----------|-----------|-----------|
|   | Unit         |           |           |           |           |           |           |
| Rated output (prime rating as per ISO 3046) | kW           | 294       | 346       | 360       | 448       | 532       | 552       |
|   | HP           | 400       | 470       | 490       | 608       | 723       | 750       |
| No. of cylinder                             | Nos.         | 8         | 8         | 8         | 10        | 12        | 12        |
| Bore x Stroke                               | mm           | 130 x 150 | 130 x 150 | 130 x 150 | 130 x 150 | 130 x 150 | 130 x 150 |
| Aspiration                                  |              | TA        | TA        | TA        | TA        | TA        | TA        |
| Governing Class                             |              | G2        | G2        | G2        | G2        | G2        | G2        |
| Fuel Consumption at 100% load*              | ltr/hr       | 69.59     | 79.54     | 82.92     | 102.89    | 122.35    | 126.92    |
| Fuel Consumption at 75% load*               | ltr/hr       | 52.90     | 60.49     | 62.63     | 77.17     | 92.41     | 95.86     |
| Lub oil Sump capacity                       | Ltrs         | 44        | 44        | 44        | 50        | 53        | 53        |
| Engine coolant capacity                     | Ltrs         | 29        | 29        | 29        | 6         | 44        | 44        |

### ALTERNATOR SPECIFICATIONS

| Parameters  | Alternator Model | KG38 2.5L4A | KG47.2 VS2 | KG47.2 VS3 | KG47.2 M7 | KG47 E1 | KG47 E1 |
|---|------------------|-------------|------------|------------|-----------|---------|---------|
|   | Unit             |             |            |            |           |         |         |
| Rating  | kVA              | 320         | 380        | 400        | 500       | 600     | 625     |
| Insulation Class  |                  | H           | H          | H          | H         | H       | H       |
| Ingress Protection  |                  | IP23        | IP23       | IP23       | IP23      | IP23    | IP23    |
| Time to built up rated voltage at rated RPM               | sec              | <5          | <5         | <5         | <5        | <5      | <5      |
| Alternator Efficiency at 100% load                        | %                | 93.8        | 94.1       | 94.1       | 94.8      | 95.5    | 95.5    |
| Alternator Efficiency at 75% load                         | %                | 94.3        | 94.4       | 94.7       | 95.3      | 95.8    | 96      |
| Voltage regulation  | %                | ±0.5        | ±0.5       | ±0.5       | ±0.5      | ±0.5    | ±0.5    |
| Permissible transient voltage dip at full load 0.8 pf lag | %                | <20         | <20        | <20        | <20       | <20     | <20     |



Global Solution Provider  
WIDEST RANGE OF GENSET

## 750 - 1010 kVA

| PARAMETERS  |                  | UNIT    | 750 to 1010 kVA |            |
|---|------------------|---------|-----------------|------------|
| Prime Rating at 0.8 pf                                    |                  | kVA     | 750             | 1010       |
|   |                  | kW      | 600             | 808        |
| Voltage   |                  | V       | 415             | 415        |
| Frequency   |                  | Hz      | 50              | 50         |
| Overall Dimensions with canopy^                           | Length           | mm      | 6800            | 7800       |
|   | Width            | mm      | 2300            | 2300       |
|   | Hight            | mm      | 2713            | 2713       |
| Dry Weight of genset with canopy^                         |                  | kg.     | 8300            | 13200      |
| Electrical starting system                                |                  | Volt-DC | 24V             | 24V        |
| Battery Capacity  |                  | Ah      | 2x180           | 4x180      |
| DG set Noise level as per CPCB Norms                      |                  | dBA     | < 75            | < 75       |
| ENGINE SPECIFICATIONS                                     |                  |         |                 |            |
| Parameters  | Engine Model     |         | DV12ETA         | DV16ETA    |
|   | Unit             |         |                 |            |
| Rated output (prime rating as per ISO 3046)               | kW               |         | 663             | 889        |
|   | HP               |         | 901             | 1210       |
| No. of cylinder   | Nos.             |         | 12              | 16         |
| Bore x Stroke   | mm               |         | 130 × 150       | 130 × 150  |
| Aspiration  |                  |         | TA              | TA         |
| Governing Class   |                  |         | G2              | G2         |
| Fuel Consumption at 100% load*                            | ltr/hr           |         | 154             | 199        |
| Fuel Consumption at 75% load*                             | ltr/hr           |         | 126.4           | 155        |
| Lub oil Sump capacity                                     | Ltrs             |         | 81              | 150        |
| Engine coolant capacity                                   | Ltrs             |         | 175             | 180        |
| ALTERNATOR SPECIFICATIONS                                 |                  |         |                 |            |
| Parameters  | Alternator Model |         | KG49.1 M75      | KG49.1 L11 |
|   | Unit             |         |                 |            |
| Rating  | kVA              |         | 750             | 1010       |
| Insulation Class  |                  |         | H               | H          |
| Ingress Protection  |                  |         | IP23            | IP23       |
| Time to built up rated voltage at rated RPM               | sec              |         | <5              | <5         |
| Alternator Efficiency at 100% load                        | %                |         | 94.6            | 95.1       |
| Alternator Efficiency at 75% load                         | %                |         | 94.9            | 95.4       |
| Voltage regulation  | %                |         | ±0.5            | ±0.5       |
| Permissible transient voltage dip at full load 0.8 pf lag | %                |         | <20             | <20        |

\* Specific gravity of diesel to be considered as 0.845 and for petrol 0.775 for LPH calculations (+5% tolerance on LPH) for well run engines only.

^ All canopy dimensions have tolerance of ± 50 mm.

^ Width of genset considered without base plate lifting hook.

^ Genset weight tolerance +50 Kg.

- In the view of continuous product updation and design changes, all above specifications & dimensions are subject to change without prior notice.
- 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.
- Genset ratings are as per ISO 8528.
- For the site conditions other than standard operating conditions, consult Kirloskar Oil Engines Ltd. for available prime power.
- All genset ratings are CPCB compliant.

# Thoughtful Design. Unmatched Features. Immense Benefits.

Kirloskar generating sets have been designed giving highest consideration to end users, offering unmatched features and immense benefits to them. From easy installation and increased reliability to faster service, lower maintenance costs and increased uptimes. Kirloskar generating sets offer distinct advantages which set new standards in engineering.

**That's Kirloskar Generating Sets for You!**



Unmatched Features



Extended service intervals



Easy installation



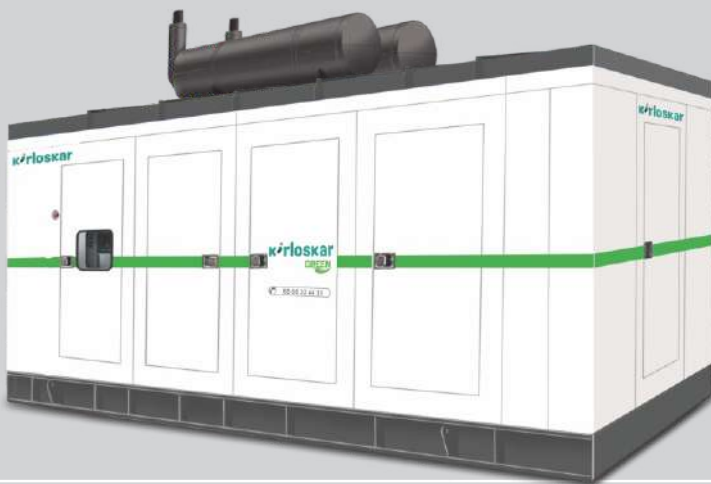
Low fuel consumption



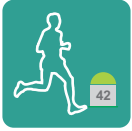
Low maintenance cost



IOT enabled genset



**Global Solution Provider**  
**WIDEST RANGE OF GENSET**



### Prime rating and Stand-by rating<sup>1</sup>

'Prime power' is designed for Unlimited hours, as compared to 'Emergency stand-by power' 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 matter<sup>2</sup>

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

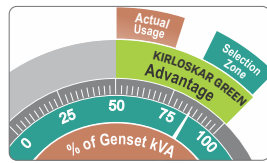
### 02E Series (Optimal Operating Efficiency):

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 the 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 efficiency & 02E provides a double advantage.



### 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 Voltage, Phase Current, kVA, kW, kWh, kVAR, Power Factor, Lube Oil Pressure, Engine Temp, RPM, Run Hours, Battery condition etc.

**Diagnostic Features:** Battery Charging failure, Over speed and Under speed, Over Current, Over voltage and Under Voltage, Over kilo Watt, Phase Seq., Phase missing, Earth Fault Trip.

Low lube oil Pressure, High Engine Temperature, Low and High battery voltage, Low Fuel Level, Over Crank protection, Genset Test Facility, Mains Frequency.

**Optional Features:** Modbus Communication, Synchronization, canopy Temperature



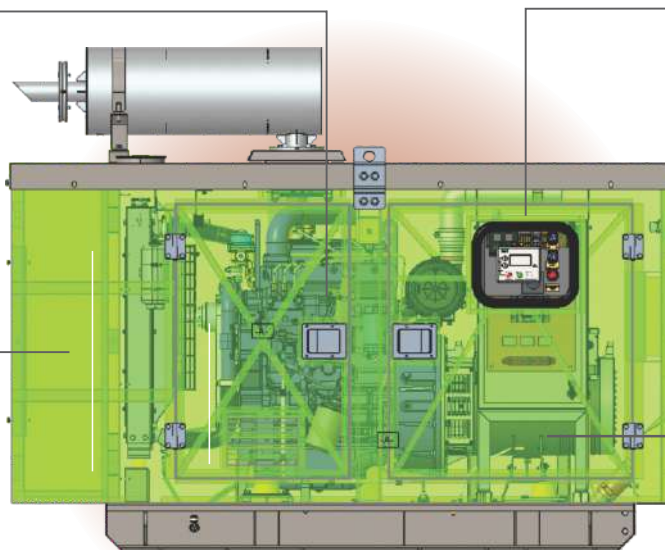
Genset Controller

### Engine

- Industries most reliable engines, proven over decades
- Low emission, high efficiency engines
- Compact, robust and rugged design
- 500 hours lube-oil change period

### Canopy

- Aesthetically designed bolt-less canopy for enhanced product life
- Weather and sound resistant enclosure
- Ease of access and serviceability
- Insulation conforms to UL94-HF1 class for flammability



### Controller

- Microprocessor based with graphical LCD display
- Best in class monitoring and diagnostic capability
- Communication configuration enabled

### Alternator

- Best in class efficiency
- Minimum harmonics interference
- Vacuum pressure impregnation
- Epoxy gel coating on the winding

# Kirloskar Green Generating Set Specifications

## Control System Features and Safeties

| Controller Module                 | DSE4522 A2   | DSE7320MKII    |
|-----------------------------------|--------------|----------------|
| kVA                               | 15 - 160 kVA | 200 - 1010 kVA |
| <b>On display screen</b>          |              |                |
| Generating set Volts, Amps, Hz    | ✓            | ✓              |
| Generating set kW, kVA, kVAR      | ✓            | ✓              |
| Generating set per phase PF       | ✓            | ✓              |
| Generating set kWhr meter         | ✓            | ✓              |
| Earth current (A)                 | No           | ✓              |
| Grid (Mains) Voltage (L-L)        | ✓            | ✓              |
| Battery Voltage (V)               | ✓            | ✓              |
| Engine start attempts             | No           | ✓              |
| Engine Temperature (°C)           | ✓            | ✓              |
| Engine speed (RPM)                | ✓            | ✓              |
| Engine Run Hours (Hours & Min.)   | ✓            | ✓              |
| Lube oil Pressure (kPa, PSI, bar) | ✓            | ✓              |
| Diesel fuel level (%)             | ✓            | ✓              |
| <b>Communication ports</b>        |              |                |
| RS485                             | No           | ✓              |
| RS232                             | No           | ✓              |

✓ - Available    No – Not available    ---- - Not applicable    WR –Warning    SD- Shutdown    Ind – Indication    DI – Digital Input

| Controller Module           | DSE4522 A2 |      |      |      | DSE7320MKII |      |      |      |
|-----------------------------|------------|------|------|------|-------------|------|------|------|
|                             | WR         | SD   | Ind  | DI   | WR          | SD   | Ind  | DI   |
| Protections                 |            |      |      |      |             |      |      |      |
| Low oil pressure            | No         | ✓    | ✓    | ---- | ✓           | ✓    | ✓    | ---- |
| High coolant temperature    | ✓          | ✓    | ✓    | ---- | ✓           | ✓    | ✓    | ---- |
| Low fuel level              | ✓          | ✓    | ✓    | ---- | ✓           | No   | ✓    | ---- |
| Low coolant level           | No         | ✓    | ✓    | ---- | No          | ✓    | ✓    | ---- |
| Under / over speed          | ✓          | ✓    | ✓    | ---- | ✓           | ✓    | ✓    | ---- |
| Low / high battery voltage  | ✓          | No   | ✓    | ---- | ✓           | No   | ✓    | ---- |
| Low charge alternator       | ✓          | No   | ✓    | ---- | ✓           | No   | ✓    | ---- |
| Emergency stop              | No         | ✓    | ✓    | ---- | No          | ✓    | ✓    | ---- |
| Fail to start/ stop warning | ✓          | No   | ✓    | ---- | ✓           | No   | ✓    | ---- |
| Auto remote start/stop DI   | ----       | ---- | ---- | ✓    | ----        | ---- | ---- | ✓    |
| Under / over voltage        | ✓          | ✓    | ✓    | ---- | ✓           | ✓    | ✓    | ---- |
| Under / over frequency      | ✓          | ✓    | ✓    | ---- | ✓           | ✓    | ✓    | ---- |
| Over kW / Overcurrent       | No         | ✓    | ✓    | ---- | No          | ✓    | ✓    | ---- |
| Low load                    | No         | No   | No   | ---- | ✓           | ✓    | ✓    | ---- |
| Incorrect phase sequence    | No         | No   | No   | No   | No          | ✓    | ✓    | ---- |
| Reverse power               | No         | No   | No   | No   | No          | ✓    | ✓    | ---- |
| Short circuit               | No         | No   | No   | No   | No          | ✓    | ✓    | ---- |
| Earth fault                 | No         | No   | No   | No   | No          | ✓    | ✓    | ---- |

✓ - Available    No – Not available    ---- - Not applicable    WR –Warning    SD- Shutdown    Ind – Indication    DI – Digital Input

## Customize Your Power Needs - Optional Accessories

### Generating set

- External bulk fuel tank of 1000L, 5000L, 10000L, 15000L
- Fuel transfer pump
- Fuel priming manual pump

### Engine

- Cold start kit
- Battery isolator switch
- 1000hrs service interval kit for select ratings

### Alternator

- Alternator space heater
- RTD, BTD (for select ratings)
- Droop current transformer (for select ratings)

### Controls

- Static battery charger 12V 5A / 24V 10A
- AMF / ATS panel
- Synchronization panel for higher kVA solutions

# Why Kirloskar?

Rich Heritage of  
**over a century**  
of engineering excellence

Designing and manufacturing diesel engines  
**since 1946**

Annual sales of nearly  
**200,000 engines**

Global presence covering more than  
**50+ countries**

**State-of-the-art**  
R&D and manufacturing facilities

Reliable engines  
for every need!



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