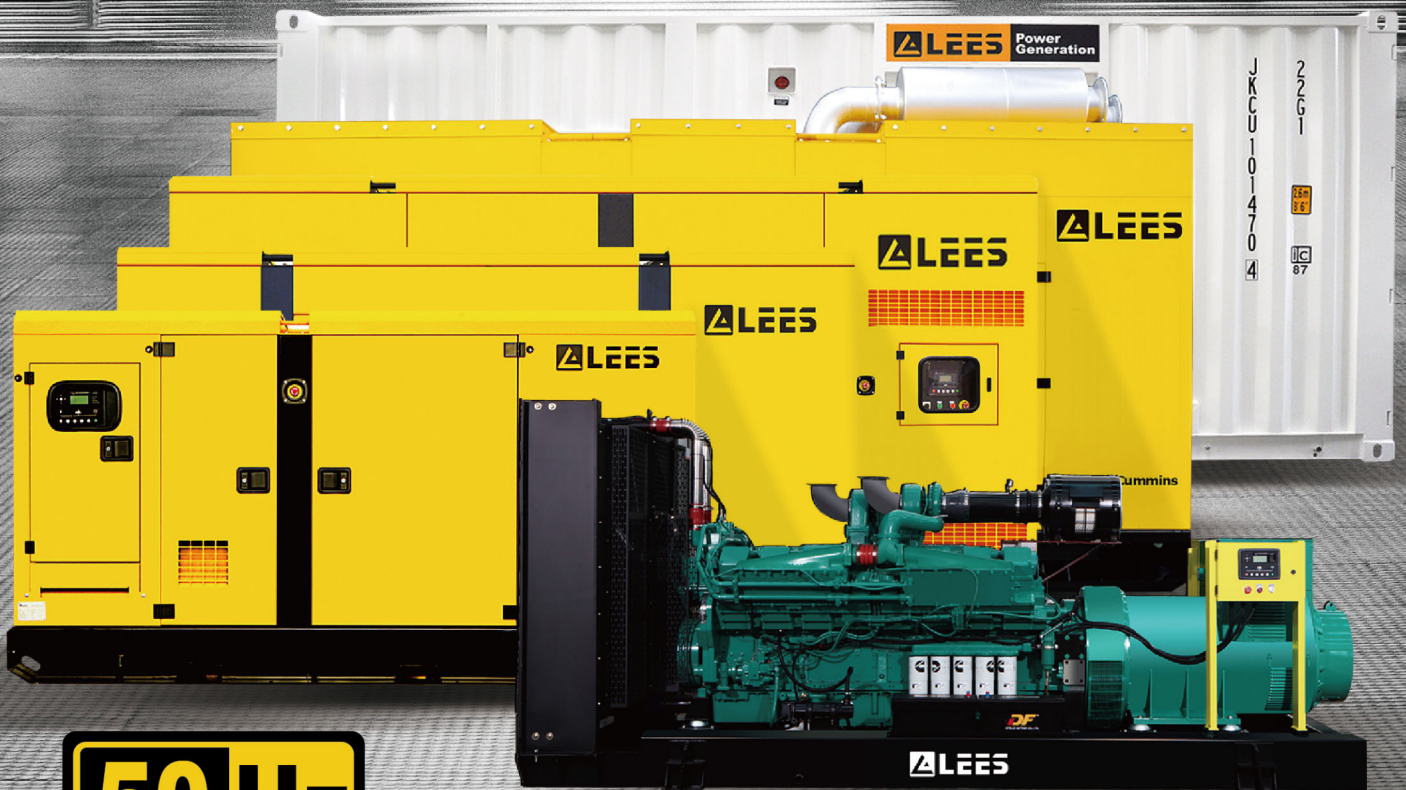




# LEES CUMMINS SERIES GENERATORS

*Comprehensive  
Power Solutions*



**50 Hz**



# About

LEES Cummins series gensets have a wide power range from 24~2500KVA, which have open type, silent type, trailer type and container type.

LEES Cummins series generators are widely used in industrial, commercial, backup, primary power source and outdoors project work and so on.

## WHY DO YOU CHOOSE LEES CUMMINS SERIES GENERATOR?

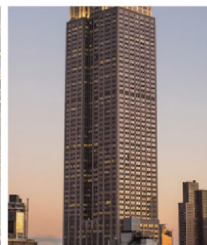
- **Performance:** Best engines ensure the best performance and the strongest power, which make sure gensets work smoothly.
- **Customer service:** Reliable Cummins global after sale service, which make sure customers have a worry free experience.
- **Optimization:** LEES make some improvements for the cummins engines, which make the engines more suitable for generators.
- **Silence:** LEES take use of two-step silencing with 5 cm thickness and high density mute cotton to low the noise. The generators could reach at 60 dbA/7m without loading and 62-65 dbA/7m with full loading.
- **Elegance:** LEES Cummins generators appearance is very fashionable and beautiful, with bright yellow color, which makes the gensets high recognition. Waterproof canopy use 2mm cold-rolled steel with powder coated painting to produce.
- **Intelligence:** LEES use world famous brand Deepsea controller to control and protect the genset. Push-to-start is very convenient.
- **Design and Details:** Considerate design is the aims and objectives. To make customers satisfied and optimize customers' experience, LEES focus on every detail and review every improvement at regular intervals. We will review the generator at least 3 times before the product get in market. At present, LEES have make the changes and improvements on anti-collision rubber, stainless screws, doors, baseframe, wiring ways, oil drain valve and so on.



## OUR APPLICATIONS



Mining



Building



Factory



Power plant



Outdoor working



Energy



Data center

# Cummins 50 Hz

## 50Hz | Three Phase

| Model                                      | LSC2453                                       | LSC2753        | LSC3453        | LSC4453        | LSC5553   | LSC6653        | LSC8653                  | LSC11053       | LSC12553  | LSC15053                               |
|--|---|----------------|----------------|----------------|---|----------------|--------------------------|----------------|---|--|
| Prime Power (kVA)                          | 20  | 25             | 30             | 40             | 50  | 60             | 76                       | 100            | 115   | 135                                    |
| Standby Power (kVA)                        | 24  | 27             | 34             | 44             | 55  | 66             | 86                       | 110            | 125   | 150                                    |
| Prime Power (kW)                           | 16  | 20             | 24             | 32             | 40  | 48             | 61                       | 80             | 92  | 108                                    |
| Standby Power (kW)                         | 19  | 22             | 27             | 35             | 44  | 53             | 69                       | 88             | 100   | 116                                    |
| Rated Frequency (Hz)                       | 50  | 50             | 50             | 50             | 50  | 50             | 50                       | 50             | 50  | 50                                     |
| Rated Voltage (V)                          | 230/400                                       | 230/400        | 230/400        | 230/400        | 230/400   | 230/400        | 230/400                  | 230/400        | 230/400   | 230/400                                |
| Rated Current (A)                          | 28.9  | 36.1           | 43.3           | 57.7           | 72.2  | 86.6           | 109.7                    | 144.3          | 166.0   | 194.9                                  |
| Rated Speed (r/min)                        | 1500  | 1500           | 1500           | 1500           | 1500  | 1500           | 1500                     | 1500           | 1500  | 1500                                   |
| Engine Brand                               | CUMMINS                                       | CUMMINS        | CUMMINS        | CUMMINS        | CUMMINS   | CUMMINS        | CUMMINS                  | CUMMINS        | CUMMINS   | CUMMINS                                |
| Engine Model                               | 4B3.9-G11                                     | 4B3.9-G1       | 4B3.9-G12      | 4BT3.9-G1      | 4BTA3.9-G2  | 4BTA3.9-G2(M)  | 4BTA3.9-G11              | 6BT5.9-G1      | 6BTA5.9-G2  | 6BTA5.9-G2                             |
| Cylinder No. & Configuration               | 4 cylinder Diesel L type                      |                |                |                |   |                | 6 cylinder Diesel L type |                |   |  |
| Working Mode                               | Naturally Aspirated                           |                |                | Turbocharged   | Turbocharged and Aftercooled (Jacket water to cooler) |                |                          | Turbocharged   | Turbocharged and Aftercooled (Jacket water to cooler) | Turbocharged and air-cooled charge air |
| Bore x Stroke (mm)                         | 102*120                                       | 102*120        | 102*120        | 102*120        | 102*120   | 102*120        | 102*120                  | 102*120        | 102*120   | 102*120                                |
| Displacement (L)                           | 3.9   | 3.9            | 3.9            | 3.9            | 3.9   | 3.9            | 3.9                      | 5.9            | 5.9   | 5.9                                    |
| Compression Ratio                          | 18.0: 1                                       | 18.0: 1        | 18.0: 1        | 18.0: 1        | 17.3:1  | 17.3:1         | 17.3:1                   | 17.3:1         | 17.3:1  | 17.3:1                                 |
| Rated Power (kW)                           | 20  | 24             | 27             | 36             | 50  | 58             | 70                       | 86             | 106   | 120                                    |
| Rated Speed                                | 1500  | 1500           | 1500           | 1500           | 1500  | 1500           | 1500                     | 1500           | 1500  | 1500                                   |
| Lubrication System                         | Splash Lubrication                            |                |                |                |   |                |                          |                |   |  |
| Lube Oil                                   | Conforms above CF class or SAE10W-30,15w-40   |                |                |                |   |                |                          |                |   |  |
| Lube Oil Capacity (L)                      | 10.9  | 10.9           | 10.9           | 10.9           | 10.9  | 10.9           | 10.9                     | 16.4           | 16.4  | 16.4                                   |
| Battery Capacity                           | 6-QW-45(380)*2                                | 6-QW-45(380)*2 | 6-QW-45(380)*2 | 6-QW-45(380)*2 | 6-QW-45(380)*2  | 6-QW-45(380)*2 | 6-QW-45(380)*2           | 6-QW-60(580)*2 | 6-QW-60(580)*2  | 6-QW-60(580)*2                         |
| Fuel Type                                  | Diesel:0#(Summer),-10#(Winter),-35#(Cold)     |                |                |                |   |                |                          |                |   |  |
| Fuel Consumption 25% load (L/H)            | 2.4   | 2.8            | 3              | 4              | 4.2   | 4.8            | 5.3                      | 6.6            | 8   | 9                                      |
| Fuel Consumption 50% load (L/H)            | 3.7   | 4.3            | 4.5            | 5.9            | 7   | 8.1            | 9.1                      | 11.5           | 14  | 16                                     |
| Fuel Consumption 75% load (L/H)            | 4.6   | 5.7            | 6.1            | 7.9            | 10  | 11.4           | 13.2                     | 16.3           | 20  | 23                                     |
| Fuel Consumption 100% load (L/H)           | 5.7   | 7.1            | 7.4            | 10             | 12.9  | 14.9           | 17.6                     | 21.7           | 27  | 30                                     |
| Phase                                      | 3   | 3              | 3              | 3              | 3   | 3              | 3                        | 3              | 3   | 3                                      |
| Poles                                      | 4   | 4              | 4              | 4              | 4   | 4              | 4                        | 4              | 4   | 4                                      |
| Loop Mode                                  | Three phase four wire                         |                |                |                |   |                |                          |                |   |  |
| Excitation System                          | Brushless self-excited constant voltage (AVR) |                |                |                |   |                |                          |                |   |  |
| Power Factor (cosΦ)                        | 0.8 (lag)                                     | 0.8 (lag)      | 0.8 (lag)      | 0.8 (lag)      | 0.8 (lag)   | 0.8 (lag)      | 0.8 (lag)                | 0.8 (lag)      | 0.8 (lag)   | 0.8 (lag)                              |
| Winding Pitch                              | 2/3   | 2/3            | 2/3            | 2/3            | 2/3   | 2/3            | 2/3                      | 2/3            | 2/3   | 2/3                                    |
| Winding Connection                         | Y connection                                  | Y connection   | Y connection   | Y connection   | Y connection  | Y connection   | Y connection             | Y connection   | Y connection  | Y connection                           |
| Terminals                                  | 12  | 12             | 12             | 12             | 12  | 12             | 12                       | 12             | 12  | 12                                     |
| Bearing                                    | single bearing                                | single bearing | single bearing | single bearing | single bearing  | single bearing | single bearing           | single bearing | single bearing  | single bearing                         |
| IP Rating                                  | IP23  | IP23           | IP23           | IP23           | IP23  | IP23           | IP23                     | IP23           | IP23  | IP23                                   |
| Insulation Rating                          | H   | H              | H              | H              | H   | H              | H                        | H              | H   | H                                      |
| Output Voltage (V)                         | 230/400                                       | 230/400        | 230/400        | 230/400        | 230/400   | 230/400        | 230/400                  | 230/400        | 230/400   | 230/400                                |
| Noise Level (7m)dB(A)                      | 80  | 80             | 80             | 80             | 80  | 80             | 80                       | 80             | 80  | 80                                     |
| Continuous Running Time (h)                | 8   | 8              | 8              | 8              | 8   | 8              | 8                        | 8              | 8   | 8                                      |
| Silent Type: Overall Dimension (mm)(LxWxH) | 2452X960X1450                                 | 2452X960X1450  | 2452X960X1450  | 2452X960X1450  | 2452X960X1450   | 2452X960X1450  | 2452X960X1450            | 2960x1100x1650 | 3360x1110x1700  | 3360x1110x1700                         |
| Silent Type: Net Weight (kg)               | 1100  | 1120           | 1126           | 1170           | 1240  | 1260           | 1320                     | 1780           | 1970  | 1980                                   |
| Silent Type: Fuel Tank Capacity (L)        | 213   | 213            | 213            | 213            | 213   | 213            | 213                      | 420            | 393   | 393                                    |
| Open Type: Overall Dimension (mm)(LxWxH)   | 1900x940x1450                                 | 1900x940x1450  | 1900x940x1450  | 1900x940x1450  | 1900x940x1450   | 1900x940x1450  | 1900x940x1450            | 2250x990x1450  | 2250x990x1450   | 2350x990x1450                          |
| Open Type: Net Weight (kg)                 | 745   | 775            | 780            | 860            | 940   | 960            | 1010                     | 1270           | 1310  | 1405                                   |
| Open Type: Fuel Tank Capacity (L)          | 130   | 130            | 130            | 130            | 130   | 130            | 130                      | 200            | 200   | 210                                    |

# Cummins 50 Hz

## 50Hz | Three Phase

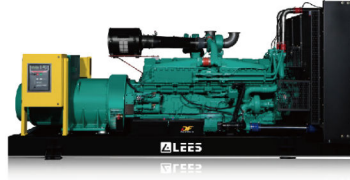
| Model                                      | LSC17053                                      | LSC20053  | LSC22053                               | LSC27553       | LSC30553  | LSC31553                               | LSC35053       | LSC38553  | LSC41553                               | LSC44053        |
|--|---|---|--|----------------|---|--|----------------|---|--|-----------------|
| Prime Power (kVA)                          | 155   | 181   | 200                                    | 250            | 275   | 280                                    | 317            | 350   | 375                                    | 400             |
| Standby Power (kVA)                        | 170   | 200   | 220                                    | 275            | 305   | 315                                    | 350            | 385   | 415                                    | 440             |
| Prime Power (kW)                           | 124   | 145   | 160                                    | 200            | 220   | 224                                    | 254            | 280   | 300                                    | 320             |
| Standby Power (kW)                         | 136   | 160   | 176                                    | 220            | 244   | 252                                    | 280            | 308   | 332                                    | 352             |
| Rated Frequency (Hz)                       | 50  | 50  | 50                                     | 50             | 50  | 50                                     | 50             | 50  | 50                                     | 50              |
| Rated Voltage (V)                          | 230/400                                       | 230/400   | 230/400                                | 230/400        | 230/400   | 230/400                                | 230/400        | 230/400   | 230/400                                | 230/400         |
| Rated Current (A)                          | 223.7   | 261.3   | 288.7                                  | 360.9          | 396.9   | 404.2                                  | 457.6          | 505.2   | 541.3                                  | 577.4           |
| Rated Speed (r/min)                        | 1500  | 1500  | 1500                                   | 1500           | 1500  | 1500                                   | 1500           | 1500  | 1500                                   | 1500            |
| Engine Brand                               | CUMMINS                                       | CUMMINS   | CUMMINS                                | CUMMINS        | CUMMINS   | CUMMINS                                | CUMMINS        | CUMMINS   | CUMMINS                                | CUMMINS         |
| Engine Model                               | 6BTAAs.9-G12                                  | 6CTA8.3-G2  | 6CTAA8.3-G1                            | 6LTAAs.9-G2    | NTA855-G1A  | 6LTAAs.5-G3                            | 6LTAAs.5-G1    | NTA855-G2A  | NTAA855-G7                             | QSNT-G3         |
| Cylinder No. & Configuration               | 6 cylinder Diesel L type                      |   |  |                |   |  |                |   |  |                 |
| Working Mode                               | Turbocharged and air-cooled charge air        | Turbocharged and Aftercooled (Jacket water to cooler) | Turbocharged and air-cooled charge air |                | Turbocharged and Aftercooled (Jacket water to cooler) | Turbocharged and air-cooled charge air |                | Turbocharged and Aftercooled (Jacket water to cooler) | Turbocharged and air-cooled charge air |                 |
| Bore x Stroke (mm)                         | 102*120                                       | 114*135   | 114*135                                | 114*145        | 140*152   | 116.5*148                              | 116.5*148      | 140*152   | 140*152                                | 140*152         |
| Displacement (L)                           | 5.9   | 8.3   | 8.3                                    | 8.9            | 14  | 9.5                                    | 9.5            | 14  | 14                                     | 14              |
| Compression Ratio                          | 17.3:1  | 17.3:1  | 18.0:1                                 | 16.6:1         | 14.5:1  | 16.6:1                                 | 16.6:1         | 14.0:1  | 14.0:1                                 | 16.3:1          |
| Rated Power (kW)                           | 140   | 163   | 183                                    | 220            | 264   | 250                                    | 290            | 312   | 343                                    | 358             |
| Rated Speed                                | 1500  | 1500  | 1500                                   | 1500           | 1500  | 1500                                   | 1500           | 1500  | 1500                                   | 1500            |
| Lubrication System                         | Splash Lubrication                            |   |  |                |   |  |                |   |  |                 |
| Lube Oil                                   | Conforms above CF class or SAE10W-30,15w-40   |   |  |                |   |  |                |   |  |                 |
| Lube Oil Capacity (L)                      | 16.4  | 27.6  | 23.8                                   | 27.6           | 38.6  | 32.4                                   | 32.4           | 38.6  | 38.6                                   | 38.6            |
| Battery Capacity                           | 6-QW-60(580)*2                                | 6-QW-80(600)*2  | 6-QW-80(600)*2                         | 6-QW-80(600)*2 | 6-QW-100(680)*2                                       | 6-QW-80(600)*2                         | 6-QW-80(600)*2 | 6-QW-100(680)*2                                       | 6-QW-100(680)*2                        | 6-QW-100(680)*2 |
| Fuel Type                                  | Diesel:0#(Summer),-10#(Winter),-35#(Cold)     |   |  |                |   |  |                |   |  |                 |
| Fuel Consumption 25% load (L/H)            | 10  | 13  | 13                                     | 15             | 17.5  | 16                                     | 18             | 21.8  | 24.6                                   | 16.6            |
| Fuel Consumption 50% load (L/H)            | 17  | 21  | 23                                     | 27             | 31.4  | 30                                     | 35             | 38.9  | 44.6                                   | 29.7            |
| Fuel Consumption 75% load (L/H)            | 26  | 31  | 34                                     | 39             | 46.1  | 44                                     | 52             | 54.9  | 64.7                                   | 43.4            |
| Fuel Consumption 100% load (L/H)           | 34  | 42  | 45                                     | 53             | 61.3  | 58                                     | 70             | 71.9  | 85.4                                   | 58.5            |
| Phase                                      | 3   | 3   | 3                                      | 3              | 3   | 3                                      | 3              | 3   | 3                                      | 3               |
| Poles                                      | 4   | 4   | 4                                      | 4              | 4   | 4                                      | 4              | 4   | 4                                      | 4               |
| Loop Mode                                  | Three phase four wire                         |   |  |                |   |  |                |   |  |                 |
| Excitation System                          | Brushless self-excited constant voltage (AVR) |   |  |                |   |  |                |   |  |                 |
| Power Factor (cosΦ)                        | 0.8 (lag)                                     | 0.8 (lag)   | 0.8 (lag)                              | 0.8 (lag)      | 0.8 (lag)   | 0.8 (lag)                              | 0.8 (lag)      | 0.8 (lag)   | 0.8 (lag)                              | 0.8 (lag)       |
| Winding Pitch                              | 2/3   | 2/3   | 2/3                                    | 2/3            | 2/3   | 2/3                                    | 2/3            | 2/3   | 2/3                                    | 2/3             |
| Winding Connection                         | Y connection                                  | Y connection  | Y connection                           | Y connection   | Y connection  | Y connection                           | Y connection   | Y connection  | Y connection                           | Y connection    |
| Terminals                                  | 12  | 12  | 12                                     | 12             | 12  | 12                                     | 12             | 12  | 12                                     | 12              |
| Bearing                                    | single bearing                                | single bearing  | single bearing                         | single bearing | single bearing  | single bearing                         | single bearing | single bearing  | single bearing                         | single bearing  |
| IP Rating                                  | IP23  | IP23  | IP23                                   | IP23           | IP23  | IP23                                   | IP23           | IP23  | IP23                                   | IP23            |
| Insulation Rating                          | H   | H   | H                                      | H              | H   | H                                      | H              | H   | H                                      | H               |
| Output Voltage (V)                         | 230/400                                       | 230/400   | 230/400                                | 230/400        | 230/400   | 230/400                                | 230/400        | 230/400   | 230/400                                | 230/400         |
| Noise Level (7m)dB(A)                      | 80  | 80  | 80                                     | 80             | 80  | 80                                     | 80             | 80  | 80                                     | 80              |
| Continuous Running Time (h)                | 8   | 8   | 8                                      | 8              | 8   | 8                                      | 8              | 8   | 8                                      | 8               |
| Silent Type: Overall Dimension (mm)(LxWxH) | 3360x1110x1700                                | 3360x1110x1700  | 3620x1232x2050                         | 3620x1232x2050 | 4260x1462x2100  | 3910x1332x2100                         | 3910x1332x2100 | 4260x1462x2100  | 4260x1462x2100                         | 4260x1462x2100  |
| Silent Type: Net Weight (kg)               | 2150  | 2480  | 2680                                   | 2850           | 3990  | 3040                                   | 3250           | 4230  | 4230                                   | 4380            |
| Silent Type: Fuel Tank Capacity (L)        | 393   | 393   | 575                                    | 575            | 765   | 758                                    | 758            | 800   | 800                                    | 800             |
| Open Type: Overall Dimension (mm)(LxWxH)   | 2415x990x1560                                 | 2490x1114x1560  | 2490x1114x1650                         | 2680x1150x1700 | 3370x1250x1950  | 3200x1150x1800                         | 3200x1150x1800 | 3370x1250x1950  | 3370x1250x1950                         | 3200x1250x2000  |
| Open Type: Net Weight (kg)                 | 1460  | 1700  | 1740                                   | 1930           | 2900  | 2300                                   | 2508           | 3200  | 3200                                   | 3400            |
| Open Type: Fuel Tank Capacity (L)          | 220   | 255   | 255                                    | 325            | 470   | 400                                    | 400            | 470   | 470                                    | 440             |



# Cummins 50 Hz

## 50Hz | Three Phase

| Model                                      | LSC50053                                      | LSC50053-1  | LSC55053        | LSC68853                               | LSC71553        | LSC82553  | LSC88053        | LSC100053       | LSC110053       | LSC125053       |
|--|---|---|-----------------|--|-----------------|---|-----------------|-----------------|-----------------|-----------------|
| Prime Power (kVA)                          | 475   | 450   | 500             | -                                      | 650             | 750   | 800             | 910             | 1000            | -               |
| Standby Power (kVA)                        | 500   | 500   | 550             | 688                                    | 715             | 825   | 880             | 1000            | 1100            | 1250            |
| Prime Power (kW)                           | 380   | 360   | 400             | -                                      | 520             | 600   | 640             | 728             | 800             | -               |
| Standby Power (kW)                         | 400   | 400   | 440             | 550                                    | 572             | 660   | 704             | 800             | 880             | 1000            |
| Rated Frequency (Hz)                       | 50  | 50  | 50              | 50                                     | 50              | 50  | 50              | 50              | 50              | 50              |
| Rated Voltage (V)                          | 230/400                                       | 230/400   | 230/400         | 230/400                                | 230/400         | 230/400   | 230/400         | 230/400         | 230/400         | 230/400         |
| Rated Current (A)                          | 685.6   | 649.5   | 721.7           | 894.0                                  | 1032.0          | 1082.6  | 1154.7          | 1313.5          | 1443.4          | 1624.0          |
| Rated Speed (r/min)                        | 1500  | 1500  | 1500            | 1500                                   | 1500            | 1500  | 1500            | 1500            | 1500            | 1500            |
| Engine Brand                               | CUMMINS                                       | CUMMINS   | CUMMINS         | CUMMINS                                | CUMMINS         | CUMMINS   | CUMMINS         | CUMMINS         | CUMMINS         | CUMMINS         |
| Engine Model                               | QSZ13-G3                                      | KTA19-G3  | KTA19-G3A       | KTAA19-G6A                             | QSK19-G4        | KTA38-G2  | KTA38-G2B       | KTA38-G2A       | KTA38-G5        | KTA38-G9        |
| Cylinder No. & Configuration               | 6 cylinder Diesel L type                      |   |                 |  |                 | 12 cylinder Diesel.VEE type                           |                 |                 |                 |                 |
| Working Mode                               | Turbocharged and air-cooled charge air        | Turbocharged and Aftercooled (Jacket water to cooler) |                 | Turbocharged and air-cooled charge air |                 | Turbocharged and Aftercooled (Jacket water to cooler) |                 |                 |                 |                 |
| Bore x Stroke (mm)                         | 130*163                                       | 159*159   | 159*159         | 159*159                                | 159*159         | 159*159   | 159*159         | 159*159         | 159*159         | 159*159         |
| Displacement (L)                           | 13  | 19  | 19              | 19                                     | 18.9            | 38  | 38              | 38              | 38              | 38              |
| Compression Ratio                          | 17.0:1  | 13.9:1  | 13.9:1          | 13.9:1                                 | 15.0:1          | 14.5:1  | 14.5:1          | 14.5:1          | 13.9:1          | 14.5:1          |
| Rated Power (kW)                           | 450   | 403   | 448             | 550                                    | 574             | 664   | 711             | 813             | 881             | 981             |
| Rated Speed                                | 1500  | 1500  | 1500            | 1500                                   | 1500            | 1500  | 1500            | 1500            | 1500            | 1500            |
| Lubrication System                         | Splash Lubrication                            |   |                 |  |                 |   |                 |                 |                 |                 |
| Lube Oil                                   | Conforms above CF class or SAE10W-30,15W-40   |   |                 |  |                 |   |                 |                 |                 |                 |
| Lube Oil Capacity (L)                      | 45.42   | 50  | 50              | 50                                     | 84.4            | 135.1   | 135.1           | 135.1           | 135.1           | 135.1           |
| Battery Capacity                           | 6-QW-100(680)*2                               | 6-QW-120(850)*2                                       | 6-QW-120(850)*2 | 6-QW-120(850)*2                        | 6-QW-120(850)*2 | 6-QW-120(850)*4                                       | 6-QW-120(850)*4 | 6-QW-120(850)*4 | 6-QW-120(850)*4 | 6-QW-120(850)*4 |
| Fuel Type                                  | Diesel:0#(Summer),-10#(Winter),-35#(Cold)     |   |                 |  |                 |   |                 |                 |                 |                 |
| Fuel Consumption 25% load (L/H)            | 26  | 29.9  | 29.9            | 31                                     | 41              | 52.4  | 52.4            | 63.5            | 64.6            | 55.4            |
| Fuel Consumption 50% load (L/H)            | 48.9  | 51.2  | 57.1            | 62                                     | 79              | 89.4  | 89.4            | 106.4           | 112.2           | 110.7           |
| Fuel Consumption 75% load (L/H)            | 74.2  | 73.1  | 82.1            | 93                                     | 111             | 127   | 127             | 148.7           | 159.8           | 166.1           |
| Fuel Consumption 100% load (L/H)           | 101   | 97.1  | 107.2           | 124                                    | 145             | 165.6   | 165.6           | 192.6           | 207.4           | 221.5           |
| Phase                                      | 3   | 3   | 3               | 3                                      | 3               | 3   | 3               | 3               | 3               | 3               |
| Poles                                      | 4   | 4   | 4               | 4                                      | 4               | 4   | 4               | 4               | 4               | 4               |
| Loop Mode                                  | Three phase four wire                         |   |                 |  |                 |   |                 |                 |                 |                 |
| Excitation System                          | Brushless self-excited constant voltage (AVR) |   |                 |  |                 |   |                 |                 |                 |                 |
| Power Factor (cosφ)                        | 0.8 (lag)                                     | 0.8 (lag)   | 0.8 (lag)       | 0.8 (lag)                              | 0.8 (lag)       | 0.8 (lag)   | 0.8 (lag)       | 0.8 (lag)       | 0.8 (lag)       | 0.8 (lag)       |
| Winding Pitch                              | 2/3   | 2/3   | 2/3             | 2/3                                    | 2/3             | 2/3   | 2/3             | 2/3             | 2/3             | 2/3             |
| Winding Connection                         | Y connection                                  | Y connection  | Y connection    | Y connection                           | Y connection    | Y connection  | Y connection    | Y connection    | Y connection    | Y connection    |
| Terminals                                  | 12  | 12  | 12              | 12                                     | 12              | 6   | 6               | 6               | 6               | 6               |
| Bearing                                    | single bearing                                | single bearing  | single bearing  | single bearing                         | single bearing  | single bearing  | single bearing  | single bearing  | single bearing  | single bearing  |
| IP Rating                                  | IP23  | IP23  | IP23            | IP23                                   | IP23            | IP23  | IP23            | IP23            | IP23            | IP23            |
| Insulation Rating                          | H   | H   | H               | H                                      | H               | H   | H               | H               | H               | H               |
| Output Voltage (V)                         | 230/400                                       | 230/400   | 230/400         | 230/400                                | 230/400         | 230/400   | 230/400         | 230/400         | 230/400         | 230/400         |
| Noise Level (7m)dB(A)                      | 80  | 80  | 80              | 80                                     | 80              | 80  | 80              | 80              | 80              | 80              |
| Continuous Running Time (h)                | 8   | 8   | 8               | 8                                      | 8               | 8   | 8               | 8               | 8               | 8               |
| Silent Type: Overall Dimension (mm)(LxWxH) | 4700x1630x2400                                | 4700x1630x2400  | 4700x1630x2400  | 5060x1912x2500                         | 5060x1912x2530  | 5400x2260x2550  | 5400x2260x2550  | 5400x2260x2550  | 5400x2260x2550  | 5400x2260x2550  |
| Silent Type: Net Weight (kg)               | 5040  | 5345  | 5450            | 6680                                   | 6525            | 9556  | 9556            | 9646            | 9646            | 10452           |
| Silent Type: Fuel Tank Capacity (L)        | 1331  | 1331  | 1331            | 1000                                   | 1000            | 1000(optional)  | 1000(optional)  | 1000(optional)  | 1000(optional)  | 1000(optional)  |
| Open Type: Overall Dimension (mm)(LxWxH)   | 3160x1380x2250                                | 3600x1400x2150  | 3600x1400x2150  | 3950x1638x2150                         | 3950x1638x2150  | 4550x2100x2320  | 4550x2100x2320  | 4550x2100x2320  | 4750x2100x2320  | 4750x2100x2320  |
| Open Type: Net Weight (kg)                 | 3500  | 3800  | 3800            | 4640                                   | 4485            | 6900  | 6900            | 7000            | 7000            | 7806            |
| Open Type: Fuel Tank Capacity (L)          | 490   | 590   | 590             | 800                                    | 800             | 1000(optional)  | 1000(optional)  | 1000(optional)  | 1000(optional)  | 1000(optional)  |

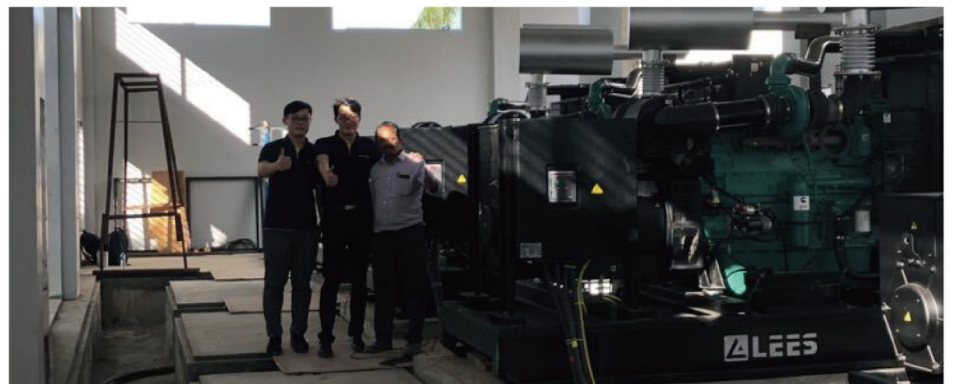


| Model                                      | LSC1410S3   | LSC1675S3      | LSC1825S3      | LSIC550S3                | LSIC880S3                              | LSIC1100S3  | LSIC2000S3                  | LSIC2250S3     | LSIC2500S3     |
|--|---|----------------|----------------|--------------------------|--|---|-----------------------------|----------------|----------------|
| Prime Power (kVA)                          | 1275  | 1500           | 1650           | 500                      | 800                                    | 1000  | 1875                        | 2045           | 2000           |
| Standby Power (kVA)                        | 1410  | 1675           | 1825           | 550                      | 880                                    | 1100  | 2000                        | 2250           | 2500           |
| Prime Power (kW)                           | 1020  | 1200           | 1320           | 400                      | 640                                    | 800   | 1500                        | 1636           | 1600           |
| Standby Power (kW)                         | 1128  | 1340           | 1460           | 440                      | 704                                    | 880   | 1600                        | 1800           | 2000           |
| Rated Frequency (Hz)                       | 50  | 50             | 50             | 50                       | 50                                     | 50  | 50                          | 50             | 50             |
| Rated Voltage (V)                          | 230/400   | 230/400        | 230/400        | 230/400                  | 230/400                                | 230/400   | 230/400                     | 230/400        | 230/400        |
| Rated Current (A)                          | 1840.4  | 2165.1         | 2381.6         | 721.7                    | 1154.7                                 | 1443.4  | 2706.4                      | 2951.8         | 2886.8         |
| Rated Speed (r/min)                        | 1500  | 1500           | 1500           | 1500                     | 1500                                   | 1500  | 1500                        | 1500           | 1500           |
| Engine Brand                               | CUMMINS   | CUMMINS        | CUMMINS        | CUMMINS                  | CUMMINS                                | CUMMINS   | CUMMINS                     | CUMMINS        | CUMMINS        |
| Engine Model                               | KTA50-G3  | KTA50-GS8      | QSK50-G7       | QSK15G8                  | QSK23-G3                               | QST30-G4  | QSK60G3                     | QSK60G4        | QSK60G8        |
| Cylinder No. & Configuration               | 16 cylinder Diesel.VEE type                           |                |                | 6 cylinder Diesel L type |  | 12 cylinder Diesel.VEE type                           | 16 cylinder Diesel.VEE type |                |                |
| Working Mode                               | Turbocharged and Aftercooled (Jacket water to cooler) |                |                |                          | Turbocharged and air-cooled charge air | Turbocharged and Aftercooled (Jacket water to cooler) |                             |                |                |
| Bore x Stroke (mm)                         | 159*159   | 159*159        | 159*159        | 137*169                  | 170*170                                | 140*165   | 159*190                     | 159*190        | 159*190        |
| Displacement (L)                           | 50.3  | 50.3           | 50.3           | 15                       | 23.15                                  | 30.48   | 60.2                        | 60.2           | 60.2           |
| Compression Ratio                          | 13.9:1  | 14.9:1         | 15.0:1         | 17.0:1                   | 16.0:1                                 | 14.0:1  | 14.5:1                      | 14.5:1         | 14.5:1         |
| Rated Power (kW)                           | 1097  | 1287           | 1421           | 444                      | 701                                    | 880   | 1615                        | 1730           | 1727           |
| Rated Speed                                | 1500  | 1500           | 1500           | 1500                     | 1500                                   | 1500  | 1500                        | 1500           | 1500           |
| Lubrication System                         | Splash Lubrication                                    |                |                |                          |  |   |                             |                |                |
| Lube Oil                                   | Conforms above CF class or SAE10W-30,15w-40           |                |                |                          |  |   |                             |                |                |
| Lube Oil Capacity (L)                      | 177   | 204            | 234.7          | 91                       | 103                                    | 154   | 280                         | 280            | 280.1          |
| Battery Capacity                           | 6-QW-200EP*4  | 6-QW-200EP*4   | 6-QW-200EP*4   | 6-QW-120(850)*2          | 6-QW-120(850)*2                        | 6-QW-200EP*2  | 6-QW-200EP*4                | 6-QW-200EP*4   | 6-QW-200EP*4   |
| Fuel Type                                  | Diesel:0#(Summer),-10#(Winter),-35#(Cold)             |                |                |                          |  |   |                             |                |                |
| Fuel Consumption 25% load (L/H)            | 76  | 88             | 104            | 31.8                     | 46                                     | 54  | 112                         | 114            | 116            |
| Fuel Consumption 50% load (L/H)            | 139   | 167            | 190            | 53.4                     | 85                                     | 102   | 190                         | 200            | 205            |
| Fuel Consumption 75% load (L/H)            | 199   | 238            | 265            | 75.2                     | 121                                    | 151   | 270                         | 291            | 295            |
| Fuel Consumption 100% load (L/H)           | 261   | 309            | 341            | 97.6                     | 161                                    | 202   | 363                         | 394            | 393            |
| Phase                                      | 3   | 3              | 3              | 3                        | 3                                      | 3   | 3                           | 3              | 3              |
| Poles                                      | 4   | 4              | 4              | 4                        | 4                                      | 4   | 4                           | 4              | 4              |
| Loop Mode                                  | Three phase four wire                                 |                |                |                          |  |   |                             |                |                |
| Excitation System                          | Brushless self-excited constant voltage (AVR)         |                |                |                          |  |   |                             |                |                |
| Power Factor (cosΦ)                        | 0.8 (lag)   | 0.8 (lag)      | 0.8 (lag)      | 0.8 (lag)                | 0.8 (lag)                              | 0.8 (lag)   | 0.8 (lag)                   | 0.8 (lag)      | 0.8 (lag)      |
| Winding Pitch                              | 2/3   | 2/3            | 2/3            | 2/3                      | 2/3                                    | 2/3   | 2/3                         | 2/3            | 2/3            |
| Winding Connection                         | Y connection  | Y connection   | Y connection   | Y connection             | Y connection                           | Y connection  | Y connection                | Y connection   | Y connection   |
| Terminals                                  | 6   | 6              | 6              | 12                       | 6                                      | 6   | 6                           | 6              | 6              |
| Bearing                                    | single bearing  | single bearing | single bearing | single bearing           | single bearing                         | single bearing  | single bearing              | single bearing | single bearing |
| IP Rating                                  | IP23  | IP23           | IP23           | IP23                     | IP23                                   | IP23  | IP23                        | IP23           | IP23           |
| Insulation Rating                          | H   | H              | H              | H                        | H                                      | H   | H                           | H              | H              |
| Output Voltage (V)                         | 230/400   | 230/400        | 230/400        | 230/400                  | 230/400                                | 230/400   | 230/400                     | 230/400        | 230/400        |
| Noise Level (7m)dB(A)                      | 80  | 80             | 80             | 80                       | 80                                     | 80  | 80                          | 80             | 80             |
| Continuous Running Time (h)                | 8   | 8              | 8              | 8                        | 8                                      | 8   | 8                           | 8              | 8              |
| Silent Type: Overall Dimension (mm)(LxWxH) | ISO 20/40ft GP  | ISO 40'ft HQ   | ISO 40'ft HQ   | 4700x1630x2400           | ISO 20'ft GP                           | ISO 20'ft GP  | ISO 40'ft HQ                | ISO 40'ft HQ   | ISO 40'ft HQ   |
| Silent Type: Net Weight (kg)               | 16850   | 18500          | 20627          | 5280                     | 10650                                  | 11545   | 21000                       | 21959          | 23000          |
| Silent Type: Fuel Tank Capacity (L)        | 1000(optional)  | 1000(optional) | 1000(optional) | 1331                     | 1000(optional)                         | 1000(optional)  | 1000(optional)              | 1000(optional) | 1000(optional) |
| Open Type: Overall Dimension (mm)(LxWxH)   | 5283x2260x2510  | 5690x2260x2510 | 5820x2200x2233 | 3600x1430x2050           | 4600x1897x2090                         | 4300x1820x2480  | 5900x2300x2600              | 6250x2500x2550 | 6250x2500x2550 |
| Open Type: Net Weight (kg)                 | 9450  | 9900           | 10050          | 5050                     | 7000                                   | 8800  | 14257                       | 16000          | 16090          |
| Open Type: Fuel Tank Capacity (L)          | 1000(optional)  | 1000(optional) | 1000(optional) | 590                      | 1000(optional)                         | 1000(optional)  | 1000(optional)              | 1000(optional) | 1000(optional) |



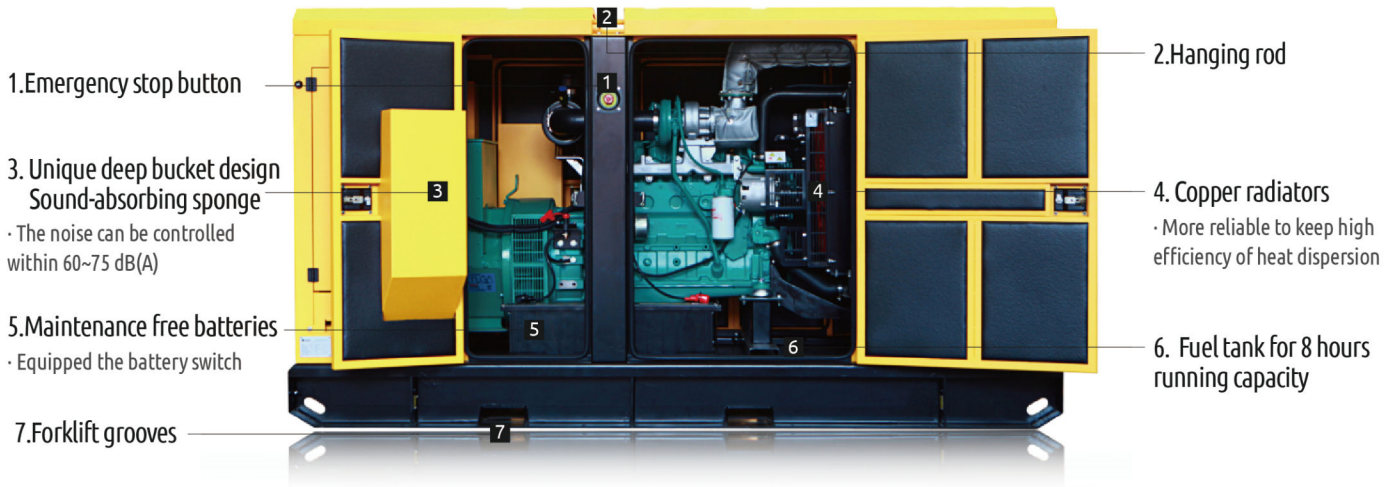


**LEES**  
**PROJECTS**  
Powered by Cummins





# Product Features



## ⚡ Features of Cummins engine

### • Accessory drive

Single Poly Vee belt drive for fan, alternator and water pump, with self-tensioning idle for minimum maintenance.

### • Complete rebuild ability

Cylinder block has multiple rebore capability.

Service cylinder sleeves and valve guides are also available.

### • Low fuel consumption

Excellent fuel consumption with B.S.F.C 215g/kw.h.

### • Cold start capability

Minimum ambient temperature for unaided cold start -12°C.

Minimum ambient temperature for aided (with coolant heater) cold start -35°C.

## ⚡ Features of alternator

- 12 wire reconnectable stator/terminal arrangement.
- Easy access for installation and maintenance.
- 2/3 pitch winding as standard, to avoid excessive neutral currents.
- Class H insulation with severe environmental protection as standard.
- Built to conform with all leading industrial and marine standards.
- 460 AVR as standard with 1.5% regulation and 2 phase sensing.
- IP23 as standard.

## ⚡ Features of DSE controller

- The DSE7320 is an Auto Mains (Utility) Failure Control Module suitable for a wide variety of single, diesel or gas, gen-set applications.
- Monitoring an extensive number of engine parameters, the modules will display warnings, shutdown and engine status information on the back-lit LCD screen, illuminated LEDs, remote PC and via SMS test alerts (with external modem).
- The DSE7320 will also monitor the mains (utility) supply. The modules include USB, RS232 and RS485 ports as well as dedicated DSENet terminals for system expansion.

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