

# KUBOTA GL SERIES DIESEL ENGINE GENERATORS

**NEW**



**LOWBOY II**

*Quiet, Low Body Design*

*2-Pole & Single Phase*

*Output: 7kW~11kW*

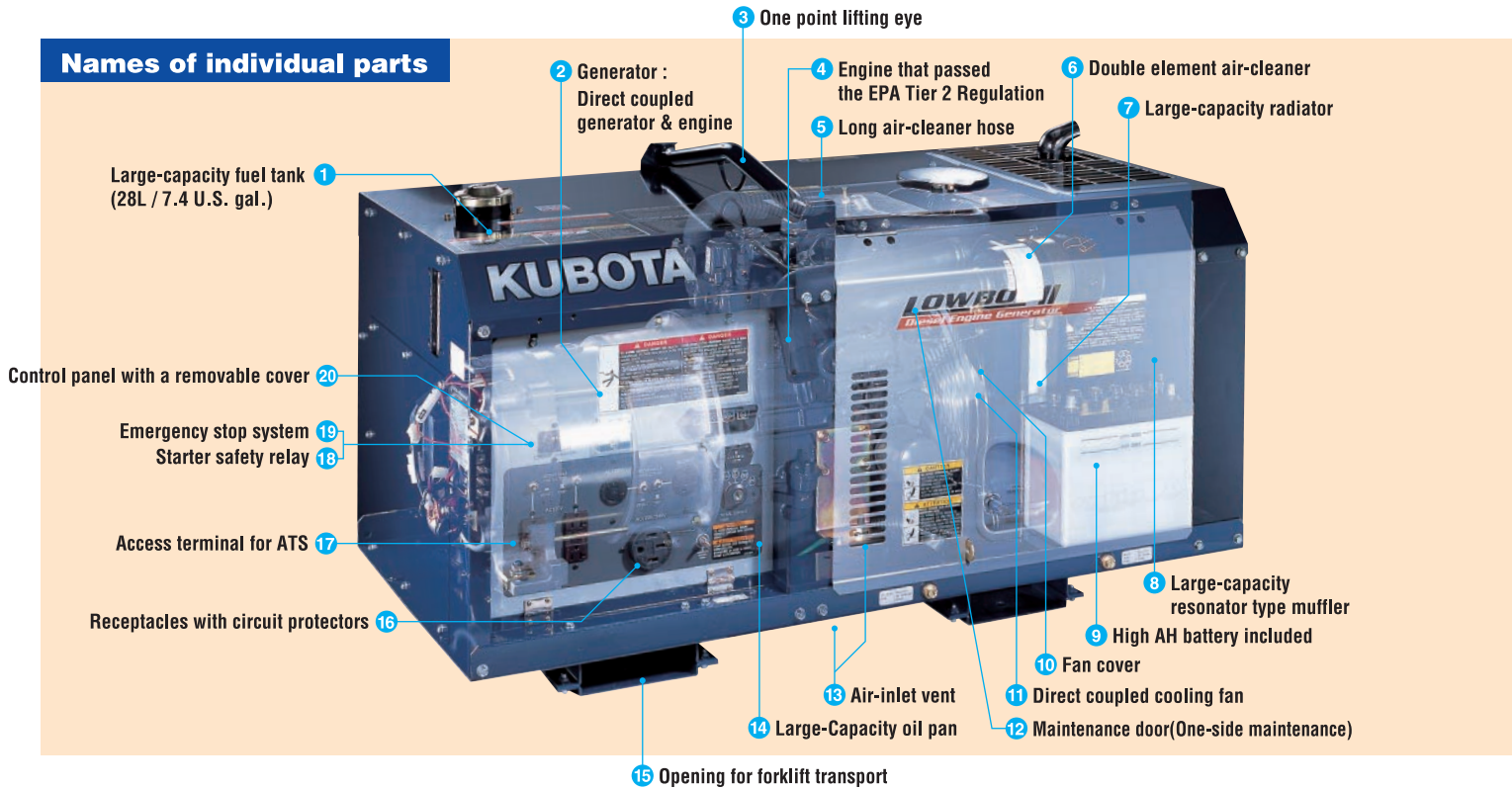


All GL models are CSA certified



# An Improved, New Generation of LOWBOY

Kubota took its standard 2-pole diesel generator and enhanced it. Unlike the previous LOWBOY, which was powered by a horizontal diesel engine; two vertical type SUPER MINI diesel engines, Z482 and D722, are at the heart of the new LOWBOY II Series. This new series kept the same **compact size**, low body design, and **low noise** levels of the previous series, while enhancing its **environment friendly** features with two diesel engines that are USA EPA emission certified.



## Outstanding Features

### Compact Design ... 11 13

The design of the LOWBOY II Series is based on the previous compact two-pole horizontal type diesel engine generator. Even though this series is powered by vertical type diesel engines, the height is kept as low as the previous LOWBOY by direct coupling the engine crankshaft with the cooling fan. Kubota also changed the location of the package's air inlet vents to reduce the height of the internal sound absorption duct.



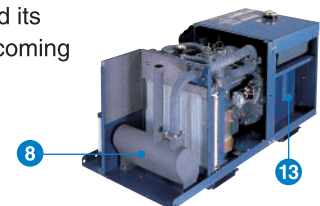
### Cleaner Emission ... 4

The diesel engines (Z482 and D722) selected to power the LOWBOY II Series produce far less soot, HC and CO emissions thanks to KUBOTA's original E-TVCS combustion system. Both Z482 and D722 are USA EPA Emission certified.



### Lower Noise Levels ... 5 8 11 13

Four separate improvements help reduce the overall noise levels. First, the large capacity radiator successfully reduces fan related noise by direct coupling its crankshaft with the **slower-speed fan**. Second, the **large capacity, built-in muffler** helps reduce exhaust related noise. Third, the **longer air cleaner hose** reduces air suction related noise. Fourth, the ideally placed **inlet vent** and its improved design reduce noise coming from the enclosure's opening.



### Access Terminals for ATS make Wiring Easy

Access terminals for Automatic Transfer Switches (ATS) is located behind the control panel.





GL7000



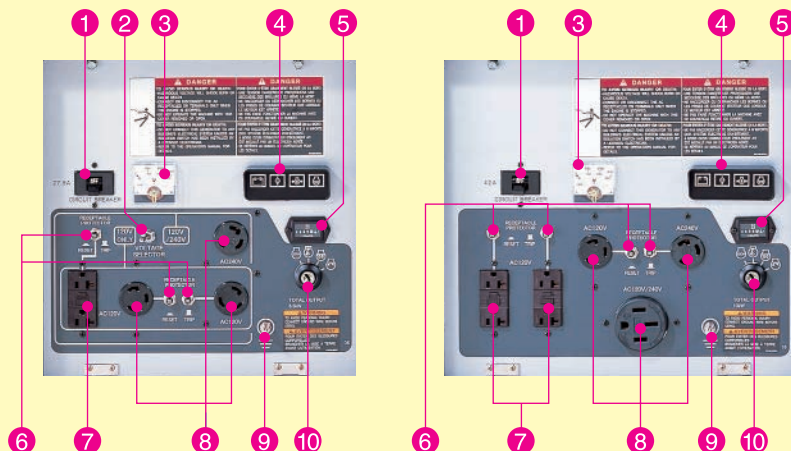
GL11000

| Item                 | No   | Description                                                                                                                                                                                                                                                                              |
|----------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Improved reliability | 2    | Generator and engine are direct-coupled to ensure a more reliable power supply with minimum power loss.                                                                                                                                                                                  |
|                      | 1    | Large capacity fuel tank (28L / 7.4 U. S. gal.) enables longer continuous operation on a single tank.                                                                                                                                                                                    |
|                      | —    | The waveform distortion is kept to a minimum by the skewed rotor, while the damper winding protects the generator during short circuits, regulates voltage fluctuations during condensive loads, and withstands load fluctuations during condensive and non-linear loads. (GL11000 only) |
| Easy maintenance     | 12   | One-side maintenance realized, reducing the operator's work load. (Maintenance checkups on oil, fuel, battery and cooling water levels.)                                                                                                                                                 |
|                      | 14   | Larger-capacity oil pan employed to stretch the oil change intervals up to 200 operating hours. Reduced the running cost for the generator owner.                                                                                                                                        |
|                      | 2    | Generator and engine are direct-coupled. Eliminated the cog-belt, therefore, no need to replace or adjust it any more.                                                                                                                                                                   |
| Safety measures      | 16   | Double circuit protectors. In addition to the overall circuit protector, each receptacle also has a circuit protector that will shut the engine down to prevent it from overcurrent damages.                                                                                             |
|                      | 2 10 | Protective covers on all moving parts (for the engine's cooling fan and the generator.)                                                                                                                                                                                                  |
|                      | 19   | Automatically shuts the engine down in case the water temperature rises excessively or the oil pressure drops below a safe level.                                                                                                                                                        |
|                      | 18   | Equipped with a starter safety relay to prevent the starter from engaging again after the engine starts up. (A safety feature)                                                                                                                                                           |
| Wide application     | 6    | Double element air cleaners are standard equipment. Ideal for heavy-duty applications in dusty environments.                                                                                                                                                                             |
|                      | 17   | An access terminal to connect to the ATS (Automatic Transfer Switches) is standard equipment. Applicable for stationary use as well.                                                                                                                                                     |
|                      | 3 15 | Transportability is enhanced with special forklift openings on the base of the machine, and the one-point lifting eye.                                                                                                                                                                   |
|                      | —    | <b>GL7000:</b> Full-power switch is standard equipment. Two sockets (30A + 30A) to take out the full 120V power.                                                                                                                                                                         |
|                      | —    | <b>GL11000:</b> 50A receptacle, widely used in the North American market, is standard equipment. Can provide up to 42A from a single socket, and 83A in total from multiple sockets.                                                                                                     |
| Options              | —    | Two-wheel kit, remote control kit.                                                                                                                                                                                                                                                       |

### Control Panel

GL7000

GL11000



### Control Panel

- 1 Supplementary Protector
- 2 Voltage Selection Switch
- 3 Volt Meter
- 4 Easy Checker (Battery charge, Glow lamp, Oil pressure, Radiator temperature)
- 5 Hour Meter
- 6 Appliance component protectors
- 7 AC Receptacle (GFCI)
- 8 AC Receptacle
- 9 External Ground Terminal
- 10 Start. Stop Key Switch

**MODEL**

| Model | Unit | GL7000 | GL11000 |
|-------|------|--------|---------|
|-------|------|--------|---------|

**GENERATOR**

|                        |          |                                           |             |
|------------------------|----------|-------------------------------------------|-------------|
| Type                   | –        | Rotating field single-phase AC generator  |             |
| Frequency              | Hz       | 60                                        |             |
| Standby Output         | kVA (kW) | 7.0 (7.0)                                 | 11.0 (11.0) |
| Prime Output           | kVA (kW) | 6.5 (6.5)                                 | 10.0 (10.0) |
| Voltage - Single Phase | V        | 120/240                                   |             |
| Armature Connection    | –        | Series                                    |             |
| Phase / Wire           | –        | 1 / 4                                     | 1 / 3       |
| Power Factor           | –        | 1.0                                       |             |
| No. of Poles           | –        | 2                                         |             |
| Insulation             | Class    | Rotor coil; class F, Stator coil; class B |             |
| Type of Coupling       | –        | Direct coupled                            |             |

**AMPS**

|                   |   |      |      |
|-------------------|---|------|------|
| Single Phase 120V | A | 54.2 | 83.3 |
| Single Phase 240V | A | 27.1 | 41.7 |

**NO. OF RECEPTACLE**

|               |   |   |   |
|---------------|---|---|---|
| 5-20RA (GFCI) | – | 1 | 2 |
| L5-30R        | – | 2 | 1 |
| L6-30R        | – | 1 | 1 |
| 14-50R        | – | 0 | 1 |

**DIESEL ENGINE**

|                               |             |                                                |                         |
|-------------------------------|-------------|------------------------------------------------|-------------------------|
| Type                          | –           | Vertical, liquid-cooled, 4-cycle diesel engine |                         |
| Model                         | –           | Z482                                           | D722                    |
| No. of Cylinders              | –           | 2                                              | 3                       |
| Bore x Stroke                 | mm (in.)    | 67.0 x 68.0 (2.6 x 2.7)                        | 67.0 x 68.0 (2.6 x 2.7) |
| Displacement                  | L (cu. in.) | 0.479 (29.2)                                   | 0.719 (43.9)            |
| Engine Speed                  | rpm         | 3600                                           |                         |
| Continuous Rated Output       | kW (HP)     | 8.1 (10.9)                                     | 12.2 (16.3)             |
| Lubricant(API classification) | –           | above CD grade                                 |                         |
| Oil Capacity                  | L (qts.)    | 2.2 (0.58)                                     | 3.4 (0.9)               |
| Coolant Capacity              | L (qts.)    | 3.7 (0.98)                                     | 4.1 (1.1)               |
| Starting System               | –           | Electric - 12 volt DC                          |                         |

**SET**

|                                        |              |                                                      |                                       |
|----------------------------------------|--------------|------------------------------------------------------|---------------------------------------|
| Fuel                                   | –            | Diesel fuel No.2 (ASTM D975)                         |                                       |
| Fuel Consumption                       | at Full Load | L/h (gal./h)                                         | 4.1 (1.09)                            |
|                                        | at 3/4 Load  | L/h (gal./h)                                         | 3.3 (0.86)                            |
|                                        | at 1/2 Load  | L/h (gal./h)                                         | 2.7 (0.71)                            |
|                                        | at 1/4 Load  | L/h (gal./h)                                         | 2.2 (0.59)                            |
| Fuel Tank Capacity                     | L (gal.)     | 28.0 (7.4)                                           | 28.0 (7.4)                            |
| Continuous Operation Hours             | at Full Load | h                                                    | 7.0                                   |
|                                        | at 3/4 Load  | h                                                    | 8.5                                   |
|                                        | at 1/2 Load  | h                                                    | 10.4                                  |
|                                        | at 1/4 Load  | h                                                    | 12.7                                  |
| Battery (Ah/5h)                        | –            | 38B20R (12V x 28Ah)                                  | 55B24R (12V x 36Ah)                   |
| Dimensions L x W x H                   | mm (in.)     | 1066 x 618 x 698 (42.0 x 24.3 x 27.5)                | 1281 x 618 x 698 (50.4 x 24.3 x 27.5) |
| Approx. Net Weight                     | kg (lbs.)    | 262 (577.6)                                          | 318 (701.0)                           |
| Sound Level (Full Load at 23 ft. [7m]) | dB (A)       | 66                                                   | 68                                    |
| Emergency Stop System                  | –            | In case of abnormal: Oil pressure, water temperature |                                       |

\*Specifications and dimensions are subject to change without prior notice.

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