Kubota

KUBOTA GL SERIES DIESEL ENGINE GENERATORS

Quiet, Low Body Design

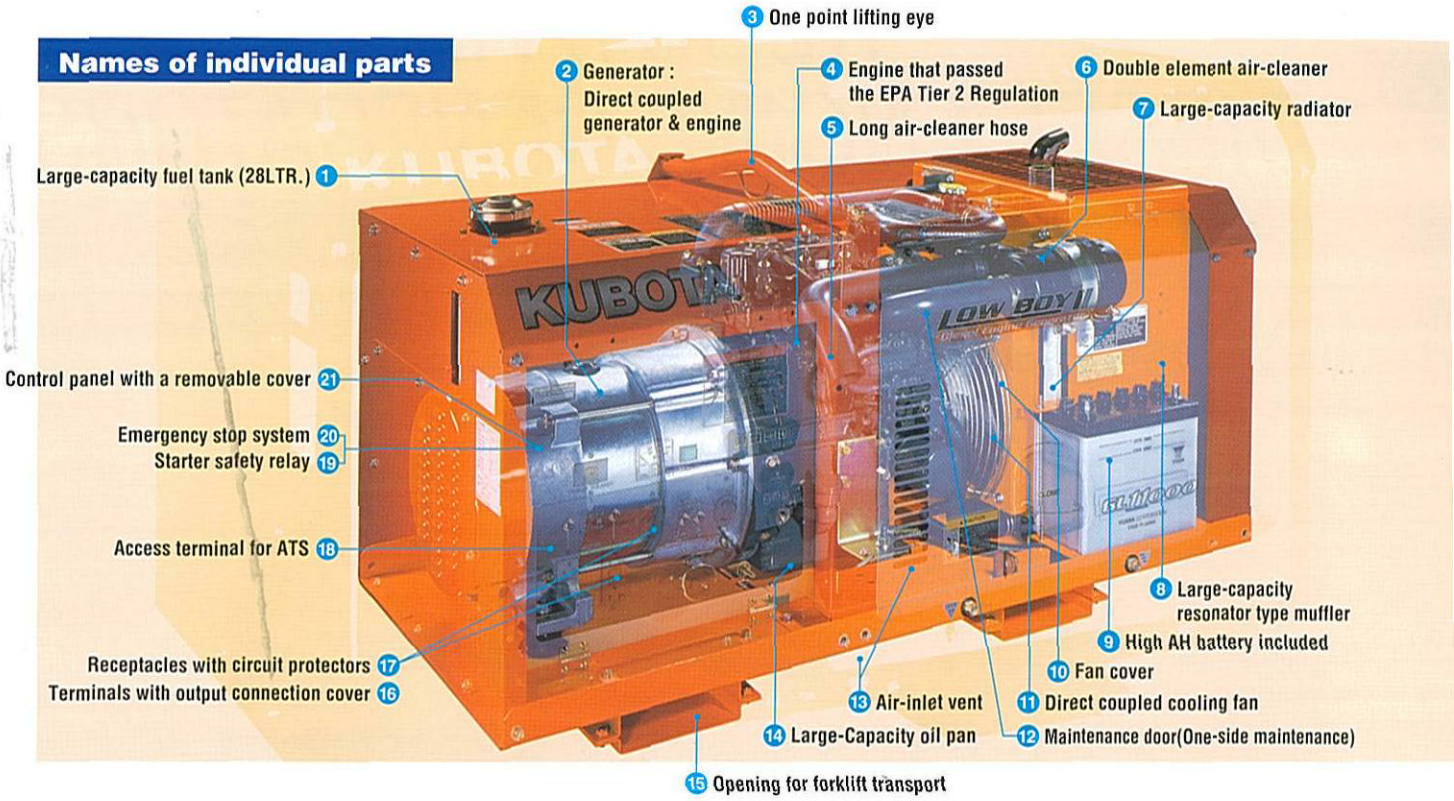
2-Pole & Single Phase

Output: 6kW～11kW

ISO 9001 Certified KUBOTA ENGINE PLANTS – SAKAI/TSUKUBA/SAKAI-RINKAI–

An Improved, New Generation o

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 passed the USA EPA emission Tier 2 Regulation. Select from either a receptacle or a terminal unit to suit your generator needs.



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.

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.

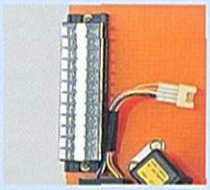
Cleaner Emission ····· 4

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 passed the USA EPA Emission Tier 2 Regulation.

EPA TIER II
EPA Tier II Certified

Access Terminals for ATS make Wiring Easy

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



LOWBOY

GL6000 (For 50 Hz Area)

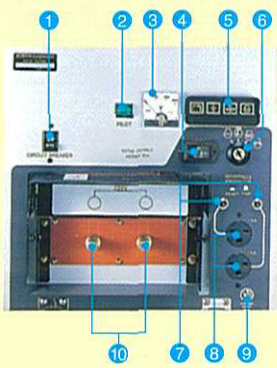
GL9000
(For 50 Hz Area)

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) 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. (GL9000 / 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. 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	17	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.
	16	Terminal type is equipped with an output connection cover that will stop the engine immediately when it is opened up during operation.
	2 10	Protective covers on all moving parts (for the engine's cooling fan and the generator.)
	20	Automatically shuts the engine down in case the water temperature rises excessively or the oil pressure drops below a safe level.
	19	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.
	18	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.
Options	—	Two-wheel kit, remote control kit.

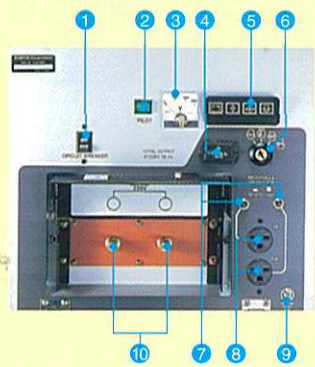
Control Panel

For 50 Hz Area

GL6000

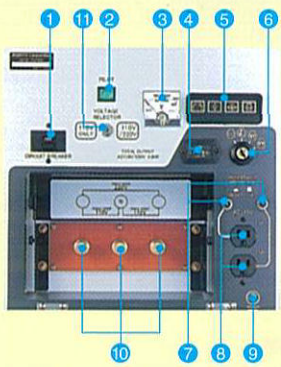


GL9000

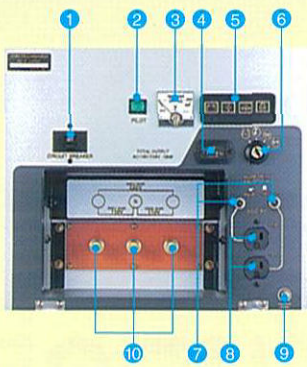


For 60 Hz Area

GL7000



GL11000



Control Panel

1. Circuit Breaker
2. Pilot Lamp
3. AC Voltmeter
4. Hour Meter
5. Monitor Lamps (Battery charge, Glow lamp, Oil pressure, Water temperature)
6. Start • Stop Key Switch
7. Recectacle Protector
8. Output Receptacles
9. Ground Terminal
10. Output Terminals
11. Voltage Selector Switch

Model

Model	Unit	For 50 Hz Area		For 60 Hz Area	
		GL6000	GL9000	GL7000	GL11000

Generator

Design		Rotating field single-phase AC generator			
Standby Output	kW	6	8.8	7	11
Prime Output	kW	5.5	8	6.5	10
Voltage	V	220		110 / 220	
Phase x Wire		1 x 2		1 x 4	1 x 3
No. of Poles		2			
Insulation		Stator: B/Rotor: F			
Voltage Compensation		AVR			
Type of Coupling		Direct coupling			

Diesel Engine

Model		Z482	D722	Z482	D722
Type		Vertical, 4-cycle liquid-cooled diesel engine			
Starting System		Electric - 12 volt DC			
Displacement	LTR. (cu.in.)	0.479 (29.2)	0.719 (43.9)	0.479 (29.2)	0.719 (43.9)
No. of Cylinders		2	3	2	3
Bore x Stroke	mm (in.)	67 x 68 (2.6 X 2.7)			
Engine Speed	rpm	3000		3600	
Cont. Rated Output	kW (HP)	6.9 (9.3)	10.3 (13.8)	8.1 (10.9)	12.2 (16.3)
Lubricating Oil		API Service Class CD or higher			
Lubricating Oil Capacity	LTR. (U.S. gal.)	2.2 (0.58)	3.4 (0.90)	2.2 (0.58)	3.4 (0.90)
Coolant Capacity	LTR. (U.S. gal.)	3.7 (0.98)	4.1 (1.1)	3.7 (0.98)	4.1 (1.1)

Set

Fuel			Diesel fuel No.2 (ASTM D975)			
Fuel Tank Capacity		LTR. (U.S.gal.)	28 (7.4)			
Fuel Consumption	at Full Load	LTR.(U.S.gal.)/h	2.4 (0.63)	3.3 (0.87)	2.7 (0.71)	4.1 (1.08)
	at 3/4 Load	LTR.(U.S.gal.)/h	2.0 (0.53)	3.0 (0.79)	2.1 (0.55)	3.1 (0.82)
	at 1/2 Load	LTR.(U.S.gal.)/h	1.6 (0.42)	2.3 (0.61)	1.5 (0.40)	2.2 (0.58)
	at 1/4 Load	LTR.(U.S.gal.)/h	1.3 (0.34)	1.7 (0.45)	1.1 (0.29)	1.5 (0.40)
Continuous Operating Hours at Full Load		hours	12	8.5	10	7
Battery		V-Ah/5Hr	38B20R (12V x 28Ah)	55B24R (12V x 36 Ah)	38B20R (12V x 28Ah)	55B24R (12V x 36 Ah)
Type of Stop Solenoid			Eneregized-to-Stop			
Sound Level	Full Load at 7m (23 ft.)	dB (A)	65	67	66	68
Dimensions	L	mm (in.)	1066 (42.0)	1281 (50.4)	1066 (42.0)	1281 (50.4)
	W	mm (in.)	618 (24.3)	618 (24.3)	618 (24.3)	618 (24.3)
	H	mm (in.)	698 (27.5)	698 (27.5)	698 (27.5)	698 (27.5)
Approx. Dry Net Weight		kg (lbs.)	235 (518)	295 (650)	235 (518)	295 (650)
Emergency Stop System			In case of abnormal: oil pressure, water temperature, or when the access terminal cover is opened			

AMPS

Single Phase 110V	A	–	–	59.1	90.9
Single Phase 220V	A	25	36.4	29.5	45.5

No. of Receptacles

5-15R		0	0	2	2
6-15R		2	2	0	0

Terminals

Output Connection		Available

Options

Two wheel kit		Available
Remote control kit		Available

Specifications and dimensions are subject to change without prior notice.

Kubota

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