iGO2Zero

KUBOTA NEW LOWBOY 3 DIESEL ENGINE GENERATORS

Power with Hydrogen for Superior Efficiency and Sustainability

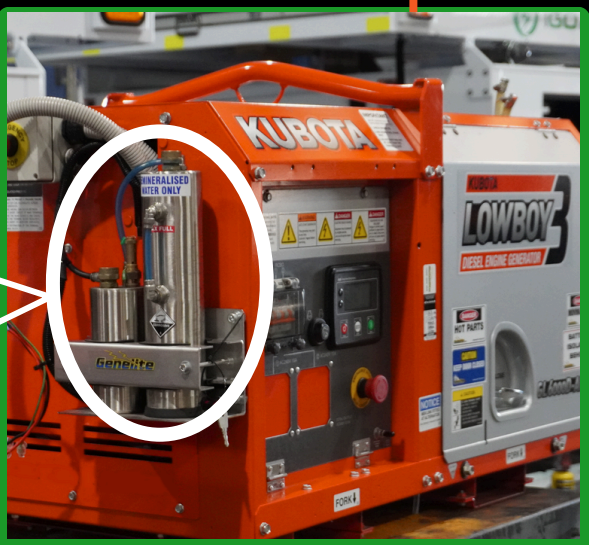
By harnessing the power of hydrogen, our innovative solution provides enhanced efficiency, reduced emissions and increased sustainability for power generation.

Complete Burn: The introduction of hydrogen allows for a more complete burn of the hydrocarbon fuel.

Improved Engine Performance: Engines operate more efficiently with the hydrocarbon-hydrogen fuel mixture.

Reduced Emissions: Engines running on this mixture produce fewer pollutants.

Cost Efficiency: Lower fuel usage translates to cost savings over time.



IGO2Zero is a Green Hydrogen on demand generating system. Using demineralised water and low voltage electricity, Hydrogen is produced by the system as needed which is then supplied into the air intake and is burnt with your engines standard hydrocarbon fuel source.

This results in a more complete burn of your hydrocarbon fuel meaning engines run more efficiently. Additionally, engines that run on hydrocarbon/hydrogen fuel mixture, run cleaner, cooler, have increased torque, and use less of your main fuel source.

GL-6000 CONTROL PANEL

GL-9000 CONTROL PANEL

REDUCE YOUR DIESEL FUEL USAGE BY UP TO 32%

REDUCE CO2 OUTPUT BY 7.58KG EVERY 10 HOUR SHIFT

Genelite onsite energy

*VERIFICATION TEST CONDITIONS ARE DRY 24-27 CELSUIS OPERATING AT 80% LOAD

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Model 1	Unit	GL6000A-AU-B
GENERATOR		
Design	—	Salient-pole, revolving-field AC generator (AVR system with separate and self- excitation brush)
Frequency	Hz	50
Rated Output (COP)	kVA	5.5
	kW	5.5
Rated Voltage	V	240
Rated amperage	A	22.9
Phase & Wire	ø-W	1-2
Power Factor	%	100
No. of Poles	—	2
Insulation	—	Rotor coil: Class F, Stator coil: Class B
Voltage Regulation	%	5 (No load to full load)
Total Harmonic Distortion	%	8 (No load), 22 (Full load)
Type of Coupling	—	Direct coupled
DIESEL ENGINE		
Model	—	Z482
Design	—	Vertical, water-cooled, 4-cycle diesel engine
No. of cylinders	—	2
Bore x stroke	mm (in.)	ø 67 x 68 (2.6 x 2.7)
Displacement	L (cu. in.)	0.479 (29.2)
Engine speed	rpm	3000
Lubricating Oil	—	API service class CF or higher
Oil capacity	L (U.S.gal.)	2.2 (0.58)
Coolant capacity	L (U.S.gal.)	3.7 (0.98)
SET		
Fuel	—	Diesel fuel No. 2 (ASTM D975)
Fuel consumption (at full load)	L (U.S.gal.)/h	2.4 (0.63) (Pre Hydrogen)
Fuel tank capacity	L (U.S.gal.)	28 (7.4)
Continuous Operating Hours	hrs	12
Battery (V × Ah/5Hr)	—	44B19R (12V x 27Ah)
Starting System	—	Electric
L x W x H	mm (in.)	1066 × 618 × 698 (42.0 x 24.3 x 27.5)
Approx Net Wt.	kg (lbs.)	235 (518)
Controller	—	Digital - DSE4520
Receptacles	—	2 x 15A (IP66 rated)
Electrical Protection	—	25A MCB (2 Pole), 16A RCBO 30mA (2 Pole) x 2, MEN Link at Alternator.
Shutdown System	—	In case of abnormal : Oil pressure, water temperature
	—	Emergency stop button, Engine Room Door Opened
	—	Under/Over Voltage and Frequency

LOW NOISE LEVELS

The use of the larger capacity radiator on the GL-6000/9000 generators, with oversize muffler plus a lower fan speed ensures minimum operating noise levels. A matched air cleaner hose further reduces suction noise to make sure these generators are the quietest available.

EASY MAINTENANCE

The fuel capacity on the GL-6000/9000 has been increased to 28 litres for extended working applications. Control panels are centrally located and easy to use, providing full operating information at a glance. Single sided maintenance reduces the operator's workload and makes checking the oil, fuel, cooling water and battery levels a simple operation. Transportability is enhanced with special forklift openings on the base of the unit as well as one point lifting eye.

A large capacity sump ensure that oil change levels are extended to 200hr intervals to reduce downtime and operating costs and a fully enclosed breathing system minimises splash back Double element air cleaners are standard allowing the GL-6000/9000 generators to be used in dusty or sandy environments.

Another benefit of the generator and engine being direct coupled is that there is no drive belt to adjust on these models.

COMPACT DESIGN

The GL-6000/9000 generators achieve their compact design and superior performance by direct coupling the alternator to the engine.

CLEANER EMISSIONS

The Kubota ETVCS vertical diesel engines which power the GL-6000/9000 generators are designed to meet the USA EPA Emission Control Tier 2 regulations.

SAFETY MEASURES

The GL-6000/9000 generators provide covers for the engine cooling fan and generator for safer operation. An automatic shutdown is activated if water temperature is to high or oil pressure drops below a safe operating level and a Starter Safety System prevents engaging again after initial start.

IMPROVED RELIABILITY

The Kubota super mini vertical diesel engines are water cooled and have increased performance for dependable horsepower and when direct coupled to the generator, provide continuous power output levels with minimum power loss.