



LBE POWERING YOUR WORLD
anytime. anywhere

K-24

POWERED BY KUBOTA



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Diesel generator set



60Hz



Water-cooled



Three Phase

Model	K-24	
Standby Power	kVA	26.4
	kW	21.1
Prime Power	kVA	24
	kW	19.2
Frequency	Hz	60

RATINGS: All three-phase units are rated at 0.8 power factor. **Standby ratings:** Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271. **Prime power ratings:** Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528/1, overload power in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271. For limited running time and base load ratings

Kubota (Japan) enjoys a strong reputation in the global market for its excellent compact, lightweight, high-output engines. Kubota is the first company in the world to obtain certification for general-purpose engines under the California Air Resources Board (CARB) emissions regulations, Kubota's engines are renowned for their world-class environmental performance. Kubota is also acknowledged for its engineering capabilities in adapting engines to different applications.



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السجل التجاري ٧٠٢٣٥١٤٦٥١
الرقم الضريبي ٣١٠٩٤٠٦٧٩٦٠٠٠٠٣
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Make & Model	KUBOTA V2203-E2-BG		
Cylinders & Arrangement	4 - vertical in-line		
Bore & Stroke (mm)	87 x 92.4		
Induction system	Naturally aspirated		
Combustion	Indirect injection		
Cycle	4 stroke		
Compression ratio	22		
Cooling System	Water cooled		
Displacement	2.197 liters		
Lube oil capacity	7.6 liters Max		
Coolant capacity	8.1 liters		
Standard governor (Optional)	Mechanical +/-5% (Electronic)		
Engine Speed	1800 rpm		
Fuel Consumption (L/H) @ 100% Load	5.2	@ 50% Load	2.6
Fuel Consumption (L/H) @ 75% Load	3.9	@ 25% Load	1.3
Radiator Cooling Air Flow (m3/s)	0.80		
Emissions regulations	EU Stage IIIA		
Exhaust temperature °C (max)	500		
Max exhaust gas flow (m3/min)	5.17		
Max. allowed back pressure (kPa)	7.1		

The above performance data are valid as per the following specs:

- Diesel Fuel is according to BS2869 Class A2 or equivalent.
- Lubricating oil is according to Grade SAE 15W-40 API CI4.
- The coolant should be 50% antifreeze and 50% fresh water.



Alternator

Type	4-Pole, Rotating-Field
Exciter type	Brushless, Permanent-Magnet, Pilot Exciter
Voltage regulator	Solid-State, Volts/Hz
Insulation	NEMA MG1, Class H
Material	Synthetic, Nonhygroscopic
Temperature rise	130°C, 150°C Standby
Bearing: quantity, type	1, Sealed
Coupling	Flexible Disc
Amortisseur windings	Full
Rotor balancing	125% 60 Hz, 150% 50 Hz
Voltage regulation, no-load to full-load (with < 0.5% drift due to temp. variation)	3-Phase Sensing, $\pm 0.25\%$
One-step load acceptance	100% of Rating
Unbalanced load capability	100% of Rated Standby

- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting.
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the generator field.
- Self-ventilated and dripproof construction.
- Superior voltage waveform from two-thirds pitch windings and skewed stator.
- Digital solid-state volts-per-hertz voltage regulator with $\pm 0.25\%$ no-load to full-load regulation.
- Brushless alternator with brushless pilot exciter for excellent load response.

Controller



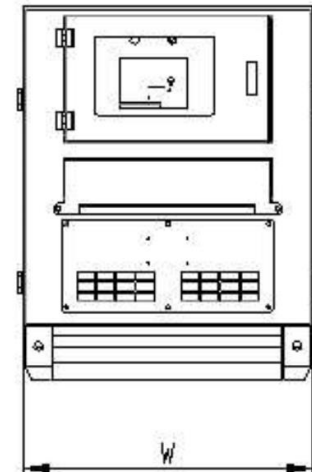
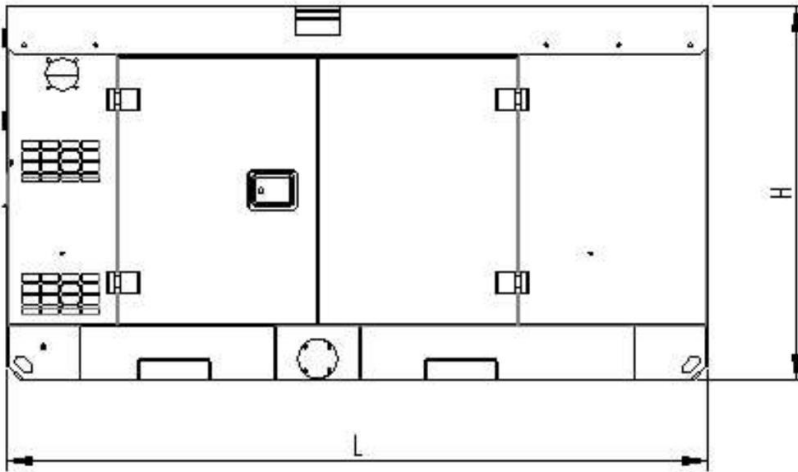
Audiovisual annunciation with NFPA 110 Level 1 capability. Programmable microprocessor logic and digital display features. Safeguard circuit protection standard. 12- or 24-volt engine electrical system capability. Remote start, remote annunciation, and remote communication options. Refer to M6-46 for additional controller features and accessories

Key Features

- 4-line back-lit LCD text display
- Five key menu navigation
- Front panel editing with PIN protection
- LED and LCD alarm indication
- Customisable status screens
- Power save mode
- Support for up to three remote display units
- 9 configurable inputs
- 8 configurable outputs
- Flexible sender inputs
- Configurable timers and alarms
- 3 configurable maintenance alarms
- Multiple date and time scheduler
- Configurable event log (250)
- Control logic facilities
- Easy access diagnostic page
- CAN and Magnetic Pick-up / Alt. Sensing
- Fuel usage monitor and low fuel alarms
- Charger alternator failure alarm
- Manual speed control
- Manual fuel pump control
- Engine exerciser
- "protections disabled" feature
- kW overload protection
- Power monitoring
- Load switching (load shedding and dummy load outputs)
- Automatic load transfer
- Unbalanced load protection
- Independent Earth Fault trip
- USB connectivity
- Backed up real time clock
- Configurable display languages
- User selectable RS232 and RS485 communications
- SMS Messaging (additional external modem required)
- Additional display screens to help with modem diagnostics
- Integral PLC editor



Overview dimension & Sound levels



Configuration	L= Length (mm)	W= Width (mm)	H= High (mm)	Weight(kg)
Enclosed set	1680	800	1050	630

Dimensions and weights shown are approximate

Genset Standard Features

Fabrication:

- Engine/alternator assembly rests on skid with anti-vibration mounting pads
- Skid made of durable sheet metals and beams exceeding vibration & torsion norms
- Skid-mounted fuel tank with fuel gauge, filler cap, fuel inlet and outlet hoses
- Control panel enclosure made of reliable metal sheet

Paint:

- White color
- Heat-treated, powder-coated electrostatic corona spraying
- Durability tests conforming to international standards: Salt Spray Resistance, Humidity Resistance

Works-Testing:

- All gensets tested prior to dispatch
- Automatic test generated and checked according to ISO 8528

Equipment:

- Water-cooled radiator with belt-driven blower fan and full guarding
- Electric starter with solenoid relay
- Battery charging alternator
- Energized-to-run solenoid
- Replaceable fuel, oil and air filters
- Heavy-duty lead-acid battery with matching capacity (Amps & CCA)
- Industrial exhaust silencer – 16 dB noise reduction