



LBE POWERING YOUR WORLD
anytime. anywhere

K-18

POWERED BY KUBOTA



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Diesel generator set



60Hz



Water-cooled



Three Phase

Model	K-18	
Standby Power	kVA	19.8
	kW	15.9
Prime Power	kVA	18
	kW	14.4
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 ٣١٠٩٤٠٦٧٩٦٠٠٠٣
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Make & Model	KUBOTA D1703-E2-BG		
Cylinders & Arrangement	3 - vertical in-line		
Bore & Stroke (mm)	87 x 92.4		
Induction system	Naturally aspirated		
Combustion	Indirect injection		
Cycle	4 stroke		
Compression ratio	22.6		
Cooling System	Water cooled		
Displacement	1.647 liters		
Lube oil capacity	5.6 liters Max		
Coolant capacity	5.5 liters		
Standard governor (Optional)	Isochronous Electronic		
Engine Speed	1800 rpm		
Fuel Consumption (L/H) @ 100% Load	3.9	@ 50% Load	1.95
Fuel Consumption (L/H) @ 75% Load	2.925	@ 25% Load	0.975
Radiator Cooling Air Flow (m3/s)	0.61		
Emissions regulations	For non-regulated territories		
Exhaust temperature °C (max)	500		
Max exhaust gas flow (m3/min)	3.87		
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	➤ NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting.
Exciter type	Brushless, Permanent-Magnet, Pilot Exciter	➤ Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
Voltage regulator	Solid-State, Volts/Hz	➤ Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the generator field.
Insulation	NEMA MG1, Class H	➤ Self-ventilated and dripproof construction.
Material	Synthetic, Nonhygroscopic	➤ Superior voltage waveform from two-thirds pitch windings and skewed stator.
Temperature rise	130°C, 150°C Standby	➤ Digital solid-state volts-per-hertz voltage regulator with $\pm 0.25\%$ no-load to full-load regulation.
Bearing: quantity, type	1, Sealed	➤ Brushless alternator with brushless pilot exciter for excellent load response.
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	

Controller



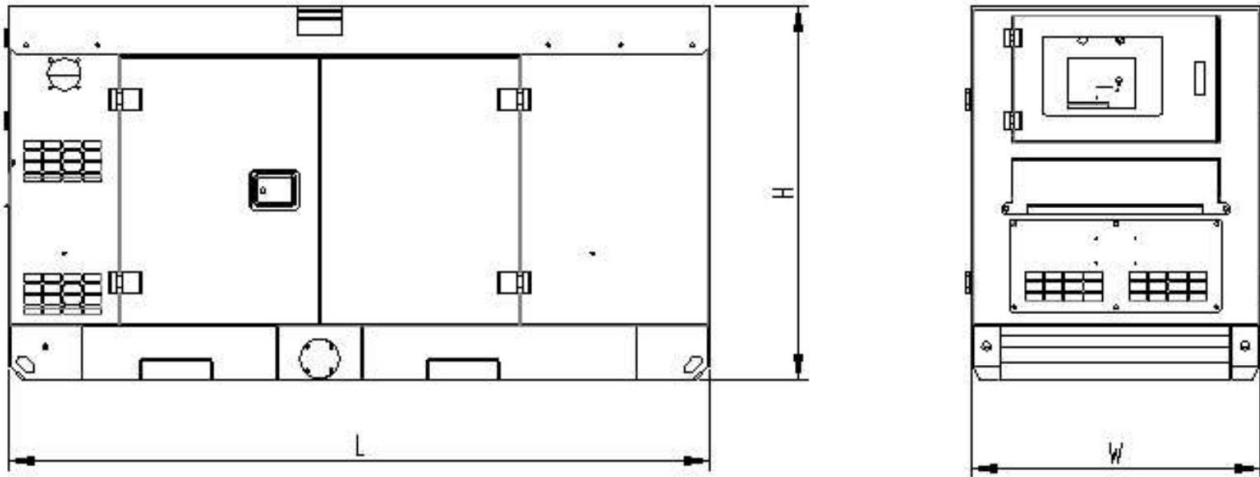
Audiovisual annunciation with NFPA 110 Level 1 capability. Programmable microprocessor logic and digital display features. Safeguard circuit protection standard. 12- or 24-volt engine electrical system capability. Remote start, remote annunciation, and remote communication options. Refer to M6-46 for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