



**LBE POWERING YOUR WORLD**  
anytime. anywhere

**K-15**

**POWERED BY KUBOTA**



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Diesel generator set



60Hz



Water-cooled



Three Phase

| Model         | K-15 |      |
|---------------|------|------|
| Standby Power | kVA  | 16.5 |
|               | kW   | 13.2 |
| Prime Power   | kVA  | 15   |
|               | kW   | 12   |
| 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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٢٣٤٤١ جدة المملكة العربية السعودية  
السجل التجاري ٧٠٢٣٥١٤٦٥١  
الرقم الضريبي ٣١٠٩٤٠٦٧٩٦٠٠٠٣  
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| <b>Make &amp; Model</b>            | <b>KUBOTA V1505-E2-BG</b>     |            |       |
|------------------------------------|-------------------------------|------------|-------|
| Cylinders & Arrangement            | 4 - vertical in-line          |            |       |
| Bore & Stroke (mm)                 | 78 x 78.4                     |            |       |
| Induction system                   | Naturally aspirated           |            |       |
| Combustion                         | Indirect injection            |            |       |
| Cycle                              | 4 stroke                      |            |       |
| Compression ratio                  | 23                            |            |       |
| Cooling System                     | Water cooled                  |            |       |
| Displacement                       | 1.498 liters                  |            |       |
| Lube oil capacity                  | 6.0 liters Max                |            |       |
| Coolant capacity                   | 6.7 liters                    |            |       |
| Standard governor (Optional)       | Mechanical +/-5% (Electronic) |            |       |
| Engine Speed                       | 1800 rpm                      |            |       |
| Fuel Consumption (L/H) @ 100% Load | 3.5                           | @ 50% Load | 1.75  |
| Fuel Consumption (L/H) @ 75% Load  | 2.625                         | @ 25% Load | 0.875 |
| Radiator Cooling Air Flow (m3/s)   | 0.60                          |            |       |
| Emissions regulations              | For non-regulated territories |            |       |
| Exhaust temperature °C (max)       | 500                           |            |       |
| Max exhaust gas flow (m3/min)      | 3.52                          |            |       |
| 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 drip-proof 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

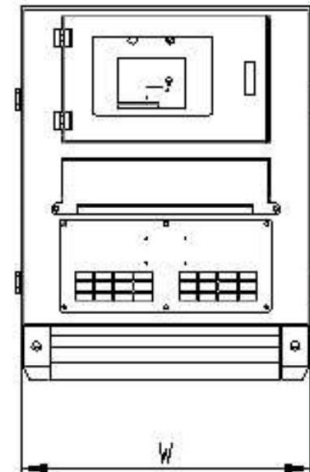
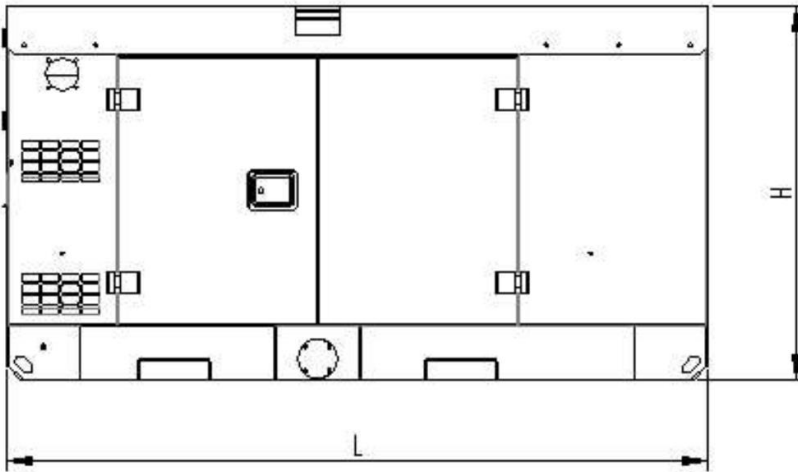
### Key Features

- 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