



**YKBT-316/S SPECIFICATIONS**  
**18kVA**

Powered by  **Kubota**  
Japanese Technology. Australian Design.

**GENERAL**

|                        |            |
|------------------------|------------|
| Model                  | YKBT-316/S |
| Power Type             | Diesel     |
| Prime Power (kW/kVA)   | 15/18      |
| Standby Power (kW/kVA) | 16.5/19.8  |

**ENGINE**

|  |   |
|--|---|
| Engine Make and Model                              | KUBOTA V2203-E2BG   |
| Engine Type  | Water-cooled, in line, 4 stroke, 1500rpm                          |
| Engine Prime Power (kW)                            | 17.2  |
| Engine Standby Power (kW)                          | 19  |
| Fuel   | Diesel fuel No. 2-D(ASTM D975)                                    |
| Fuel Tank Capacity (L)                             | 110   |
| Fuel Consumption (L/h)                             | 4.25  |
| Fuel Injection Pressure MPa (kgf/cm <sup>2</sup> ) | 13.73 (140)   |
| Coolant Capacity (L)                               | 7.8   |
| Battery Type                                       | Lead-acid, 1 x 12V - 80AH   |
| Combustion Type                                    | Spherical type (E-TVCS)   |
| Bore (mm) x Stroke (mm)                            | 87 x 92.4   |
| No. of Cylinders                                   | 4   |
| Displacement (L)                                   | 2.197   |
| Compression Ratio                                  | 23  |
| Steady Governing Type                              | All speed mechanical governor                                     |
| Firing Order                                       | 1-3-4-2   |
| Starting System                                    | Starter (with glow plug)  |
| Cooling System                                     | Pressurised radiator, forced circulation with water pump          |
| Lubricating System                                 | Forced lubricating with trochoid pump                             |
| Lubricating Oil                                    | Class CF lubricating oil as per API classification is recommended |
| Lubricating Oil Capacity (L)                       | 9.7   |
| Intake Resistance kPa (mm/Aq)                      | ≤1.96 (200)   |
| Back Pressure kPa (mm/Hg)                          | ≤7.07 (53)  |
| Ho (Heat Rejection to coolant) (kcal/H)            | 21,600  |

**ALTERNATOR**

|                            |                                |
|----------------------------|--------------------------------|
| Model                      | SLG184E1, single bearing IP22  |
| Frequency (Hz)             | 50                             |
| Continuous Output (kW/kVA) | 18/22.5                        |
| Power Efficiency           | 81.7%                          |
| Type                       | 4 pole, rotating field         |
| Exciter Type               | Brushless, self excited        |
| Voltage Regulator          | AS440                          |
| Voltage Regulation         | ±1.0% with 4% engine governing |
| No. of Phases              | 3 phases, 4 wire               |
| Insulation                 | Class H                        |
| Protection                 | IP22                           |
| Rated Power Factor         | 0.8                            |
| Stator Winding             | Double layer concentric        |
| Winding Pitch              | Two thirds                     |
| Winding Leads              | 12                             |
| Waveform Distortion        | No load <1.5%                  |
| Altitude (m)               | 1000                           |

**UNIT**

|                          |                 |
|--------------------------|-----------------|
| Dimensions L x W x H (m) | 2.1 x 0.9 x 1.4 |
| Dry Weight (kg)          | 1110            |
| Sound at 7m/dB           | 73              |

**STANDARD FEATURES**

- 50°C rated radiator
- Powder coated finish
- External fuel tank connections
- EVAC service points
- 110% bunded skid base
- All moving parts are fitted with safety guards
- Fitted sockets RCD protectors:
  - 2 x 1Ph 15amp 3 pin
  - 1 x 3Ph 20amp 5 pin
  - 1 x 3Ph 32amp 5 pin
- Bunded base with drain valve
- IP66 rating outlets
- Waterproof IP65
- Dust proof electrical components
- Rated lifting lugs
- Emergency E stop
- State of the art control system - Deep Sea
- Battery isolator
- Door safety interlocks



**OPTIONS**

24 hour fuel tank

**ASSEMBLY**

The engine and alternator are closed coupled by means of an SAE flange. A full torsional analysis has been carried out to guarantee no harmful vibration will occur. Anti-vibration pads are affixed between engine alternator feet and base frame. Rubber diagonal isolators are specifically designed to reduce engine and alternator vibration and prevent distortion in the voltage and harmonic output of the generator. All iron and steel surfaces of the canopy fabrication have been sand blasted and then powder coated, which provides an excellent corrosion resistant surface.



**CONTROL SYSTEM**

The DSE6020 is an Auto Mains Failure Control Module suitable for a wide variety of single, diesel or gas, genset applications. Monitoring speed, frequency, voltage, current, oil pressure, coolant temperature and fuel level, the module will display warnings, shutdown and engine status information on the back-lit LCD screen and illuminated LED.

**DSE6020**



**QUALITY STANDARDS**

Our generator sets are compliant with all the main standards, such as ISO8528, ISO14000, GB755, BS5000, VDE0530, ISO3046, IEC34-1, AS3000.

**WARRANTY POLICY**

12 months, 1200 hours as per generator.  
Generators Australia Pty Ltd Warranty Policy.