



**YKBT-322/S SPECIFICATIONS**  
**21kVA**

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

**GENERAL**

Model	YKBT-322/S
Power Type	Diesel
Prime Power (kW/kVA)	17/21
Standby Power (kW/kVA)	18.7/23.1

**ENGINE**

Engine Make and Model	KUBOTA V2003T-E2BG
Engine Type	Water-cooled, in line, 4 stroke, 1500rpm
Engine Prime Power (kW)	20.4
Engine Standby Power (kW)	22.4
Fuel	Diesel fuel No. 2-D(ASTM D975)
Fuel Tank Capacity (L)	110
Fuel Consumption (L/h)	4.78
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)	83 x 82.4
No. of Cylinders	4
Displacement (L)	1.999
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)	7.6
Intake Resistance kPa (mm/Aq)	≤1.96 (200)
Back Pressure kPa (mm/Hg)	≤7.07 (53)
Ho (Heat Rejection to coolant) (kcal/H)	24,300

**ALTERNATOR**

Model	SLG184H1, single bearing IP22
Frequency (Hz)	50
Continuous Output (kW/kVA)	18/22.5
Power Efficiency	84.2%
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)	1140
Sound at 7m/dB	68

**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.