



ATA

Makes Life Brighter

Generators & Switchgear Solutions

ATA KUBOTA V2003-T-E2-BG (1500 rpm), 20KVA

| Rating | KVA |
|----------|--------|
| Stand By | 22 kva |
| Prime | 20 kva |

| Engine Technical Data | |
|----------------------------------|------------------------|
| Make & Model | KUBOTA V2003-T-E2-BG |
| Cylinders & Arrangement | 4; vertical in-line |
| Bore & Stroke (mm) | 83 x 92.4 |
| Induction system | Turbocharged |
| Combustion | Indirect injection |
| Cycle | 4 stroke |
| Compression ratio | 21.7 |
| Cooling System | Water cooled |
| Displacement | 1.999 liters |
| Lube oil capacity | 7.6 liters Max |
| Coolant capacity | 8.4 liters |
| Standard governor | Isochronous Electronic |
| Engine Speed | 1500 rpm |
| Fuel Consumption @ 100% Load | 5.6 (L/H) |
| Fuel Consumption @ 75% Load | 4.2 (L/H) |
| Fuel Consumption @ 50% Load | 2.8 (L/H) |
| Fuel Consumption @ 25% Load | 1.4 (L/H) |
| Radiator Cooling Air Flow (m3/s) | 0.78 |
| Emissions regulations | EU Stage IIIA |
| Exhaust temperature °C (max) | 510 |
| Max exhaust gas flow (m3/min) | 5.5 |
| Max. allowed back pressure (kPa) | 7.1 |

Dimensions

| Type | Length (mm) | Width (mm) | Height (mm) | Fuel Tank (L) | Weight (KG) |
|--------|-------------|------------|-------------|-----------------|-------------|
| Open | 1650 | 775 | 1175 | 100 | 800 |
| Closed | 2000 | 950 | 1495 | 100 | 1300 |

UAE, Sharjah Airport, Saif Zone Warehouse 2 , Street 14

Mobile: +971502296962

E-mail: Info@ataswg.com

Website: www.ataswg.com



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ALTERNATOR SPECIFICATIONS

TAL 042 - Three-phase 25 to 60 kVA - 50 Hz / 31.5 to 75 kVA - 60 Hz

| | | | |
|---|---|---|------------|
| Insulation class | H | Excitation system 6-wire | SHUNT AREP |
| Winding pitch | 2/3 (wind.6S - 6-wire / wind.6 - 12-wire) | AVR type | R120 R180 |
| Number of wires | 6-wire (12-wire option) | Excitation system 12-wire (option) | SHUNT AREP |
| Protection | IP 23 | AVR type | R120 R180 |
| Altitude | ≤ 1000 m | Voltage regulation (*) | ± 1 % |
| Overspeed | 2250 R.P.M. | Total Harmonic Distortion THD (**) in no-load < 2 % | |
| Air flow 50 Hz (m³/s) | 0.1 | Total Harmonic Distortion THD (**) in linear load < 5 % | |
| Air flow 60 Hz (m³/s) | 0.13 | Waveform: NEMA = TIF (**) | < 50 |
| AREP Short-circuit current = 2.7 In: 5 second | | Waveform: I.E.C. = FHT (**) | < 2% |

Control Panel

DSE4510

Auto Start Control Module

The DSE4510 is a compact Auto Start Control Module that has been developed to provide an outstanding range of features within a compact enclosure.

OVERALL SIZE

140 mm x 113 mm x 43 mm (5.5" x 4.4" x 1.5")

PANEL CUTOUT SIZE

118 mm x 92 mm (4.6" x 3.6")

MAXIMUM PANEL THICKNESS

8.0 mm (0.3")

WEIGHT

0.26kg

PRODUCT VARIANTS

4510-03 - 4510 Auto Start Control Module (Ct, Rtc)

4510-04 - 4510 Auto Start Control Module (Ct, Rtc, Htr)



Optional configurations:

Engine accessories:

- Heavy-duty air filter
- Coolant heater
- Lubricant oil heater
- Fuel and Water Separator
- Lube oil rotary pump

Alternator And Accessories:

- Leroy somer/stamford
- Anti condensation heater
- PMG + AVR ◊ Double bearing
- alternator High voltage_____kV
- RTDs for Bearing and winding

Cooling System:

- 55 degree Radiator
- Remote Radiator

Control System:

- AMF
- Parallel
- Practical type in low temperature environment
- Control Screen Heater
- Remote Annunciators
- Other (ComP, DEIF)

Circuit Breaker:

- 3/4 poles
- Fixed/handcart type
- Electric mechanism

Automatic Transfer Switch (ATS):

- ATS cabinet
- Contractor type ATS
- Motorized changeover type ATS

Start Battery:

- Nickel-cadmium battery
- Maintenance-free battery
- Battery charger and selector switch
- Charging current meter

External Fuel Tank:

- Single /double wall fuel tank (500-5000 L)
- Fuel Transfer pump

Exhaust Muffler:

- Residential grade
- Critical grade
- Hospital grade

Available for voltages :

- 400/230V, 480/277V, 380/220V, 440/254V, 416/240V, 220/127V, 208/120V



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Prime Rating:

Unlimited hours usage, with an average load factor of 80% over each 24 hours period. 10% overload is available for 1 hour in every 12 hours operation. 0 overload is permitted on standby power.

Standby Rating:

Limited to 500 hours annual usage, with an average load factor of 80% of the published standby power rating over each 24 hours period. Up to 300 hours of annual usage may be run continuously. No over-load is permitted on standby power.

Engine:

Kubota, including air filters, fuel filters, oil filter, starting motor and charging alternator etc.

Warranty policy:

ATA products have a warranty for 12 months or 1000 hours whichever occurs first against any manufacturing defects

Wearing parts (filters), incorrect man-made operation, maintenance failures are excluded from the warranty policy

Radiator:

50°C, fan protective shroud

Fuel Tank:

Capacity of fuel tank is for 8– 10 hours running
Built in fuel tank up to 800 kVA

Circuit Breaker:

3 pole LS MCCB

Alternator Type:

brushless AC alternator

Control system alarms:

Over and Under Speed
Low and High Battery Volt. Start and Stop Failure Over Current Under / Over Generator Voltage
Low Oil Pressure
Emergency stop High engine temperature



STAMFORD
power generation

DSE



LEROY SOMER

Manufacturer reserves the right to make changes in model, technical specifications, color, equipment and accessories without prior notice. All photos are representative and may not reflect exact mode.

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