



ATA

Makes Life Brighter

Generators & Switchgear Solutions

ATA JD 80, 4045TFG20 / 4045TFU20 60 KVA

| Generator Power (prime) | | 60 kVA prime/65 kVA stand-by | | | | |
|-------------------------|---------------|------------------------------|-----------|-----------|------------|-----|
| Speed | Operation | Engine | | Generator | | |
| | | kW | Fan power | Gen. eff. | kVA | KWe |
| 1500 rpm – 50 Hz | Prime power | 75 | 4.1 | 90% | 81 | 65 |
| | Standby power | 82 | 4.1 | 90% | 90 | 72 |
| 1800 rpm – 60 Hz | Prime power | 85 | 4.7 | 90% | 92 | 74 |
| | Standby power | 93 | 4.7 | 90% | 102 | 81 |

General Data

| Model (Bare/Power Unit) | 4045TFG20 / 4045TFU20 |
|----------------------------|------------------------------|
| Configuration | 4 cylinders, in-line |
| Type | 4-stroke |
| Displacement | 4.5L |
| Bore and stroke | 106 x 127 mm |
| Compression ratio | 17.0 : 1 |
| Rotation | Counterclockwise |
| Injection type | Mechanical, comp. with e-gov |
| Aspiration | Turbocharged |
| Starter | 3.2 kW, 12V |
| Alternator | 75 amp, 12V |
| Total lubricating capacity | 12L |
| Service | Right hand side |
| Flywheel housing | SAE 3 |
| Flywheel | 11.5" |
| Cooling system | Water-cooled |

Power Unit data

| Model (Power Unit) | 4045TFU20 |
|---------------------------|---------------------------------|
| Cooling system design | Radiator/CAC |
| Radiator material | Copper |
| Coolant ratio | 50% ethylene glycol - 50% water |
| Engine coolant capacity | 9L |
| Radiator coolant capacity | 16.3L |
| Air filter | Dry type |

Fuel consumption (kg/h)

| Frequency | Operation | 25% | 50% | 75% | 100% |
|------------------|---------------|-----|------|------|------|
| 1500 rpm – 50 Hz | Prime power | 4.9 | 8.9 | 12.9 | 17.0 |
| | Standby power | 5.4 | 9.8 | 14.2 | 18.3 |
| 1800 rpm – 60 Hz | Prime power | 6.0 | 10.8 | 15.0 | 19.7 |
| | Standby power | 6.6 | 11.8 | 16.5 | 21.3 |

Dimensions

| Type | Length (mm) | Width (mm) | Height (mm) | Fuel Tank (L) | Weight (KG) |
|--------|-------------|------------|-------------|---------------|-------------|
| Open | 1950 | 775 | 1175 | 135 | 900 |
| Closed | 2260 | 1110 | 1500 | 135 | 1450 |

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ALTERNATOR SPECIFICATIONS

TAL 044 - Three-phase 70 to 200 kVA- 50 Hz / 88 to 250 kVA- 60 Hz

| | | | |
|-----------------------------------------------------|-------------------------------------------|---------------------------------------------------------|----------------------|
| Insulation class | H | Excitation system 6-wire | SHUNT AREP+ / PMG |
| Winding pitch | 2/3 (wind.6S - 6-wire / wind.6 - 12-wire) | AVR type | R120 R180 |
| Number of wires | 6 (12 option) | Excitation system 12-wire (option) | SHUNT AREP+ / PMG |
| Protection | IP 23 | AVR type | R120 R180 |
| Altitude | ≤ 1000 m | Voltage regulation (*) | ± 1 % ± 0.5 % |
| Overspeed | 2250 R.P.M. | Total Harmonic Distortion THD (**) in nc-load < 2 % | |
| Air flow 50 Hz | 0.29 m³/s | Total Harmonic Distortion THD (**) in linear load < 5 % | |
| Air flow 60 Hz | 0.34 m³/s | Waveform: NEMA = TIF (**) < 50 | |
| AREP+/PMG 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:

John Deere, 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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