



**ATA**

Makes Life Brighter

*Generators & Switchgear Solutions*

## ATA John Deere 40, 3029TFG20 / 3029TFU20 40 KVA

| Generator Power (prime) |               | 40 kVA prime/45 kVA stand-by |           |           |     |     |
|-------------------------|---------------|------------------------------|-----------|-----------|-----|-----|
| Speed                   | Operation     | Engine                       |           | Generator |     |     |
|                         |               | kW                           | Fan power | Gen eff.  | kVA | KWe |
| 1500 rpm – 50 Hz        | Prime power   | 38                           | 2.1       | 90%       | 41  | 33  |
|                         | Standby power | 42                           | 2.1       | 90%       | 45  | 36  |
| 1800 rpm – 60 Hz        | Prime power   | 44                           | 2.4       | 90%       | 46  | 37  |
|                         | Standby power | 48                           | 2.4       | 90%       | 51  | 41  |

### General Data

| Model (Bare/Power Unit)    | 3029TFG20 / 3029TFU20        |
|----------------------------|------------------------------|
| Configuration              | 3 cylinders, in-line         |
| Type                       | 4-stroke                     |
| Displacement               | 2.9L                         |
| Bore and stroke            | 106 x 110 mm                 |
| Compression ratio          | 17.2:1                       |
| Rotation                   | Counterclockwise             |
| Injection type             | Mechanical, comp. with e-gov |
| Aspiration                 | Turbocharged                 |
| Starter                    | 3.2 kW, 12V                  |
| Alternator                 | 65 amp, 12V                  |
| Total lubricating capacity | 8L                           |
| Service                    | Right hand side              |
| Flywheel housing           | SAE 4                        |
| Flywheel                   | 10"                          |
| Cooling system             | Water-cooled                 |

### Power Unit data

| Model (Power Unit)        | 3029TFU20                       |
|---------------------------|---------------------------------|
| Cooling system design     | Radiator                        |
| Radiator material         | Copper                          |
| Coolant ratio             | 50% ethylene glycol - 50% water |
| Engine coolant capacity   | 5.7L                            |
| Radiator coolant capacity | 7.6L                            |
| Air filter                | Dry type                        |

### Fuel consumption (kg/h)

| Frequency        | Operation     | 25% | 50% | 75% | 100% |
|------------------|---------------|-----|-----|-----|------|
| 1500 rpm – 50 Hz | Prime power   | 2.6 | 4.5 | 6.5 | 8.5  |
|                  | Standby power | 2.9 | 4.9 | 7.2 | 9.2  |
| 1800 rpm – 60 Hz | Prime power   | 3.3 | 5.4 | 7.8 | 9.9  |
|                  | Standby power | 3.5 | 5.8 | 8.5 | 10.7 |

### Dimensions

| Type   | Length (mm) | Width (mm) | Height (mm) | Fuel Tank ( L ) | Weight (KG) |
|--------|-------------|------------|-------------|-----------------|-------------|
| Open   | 1950        | 775        | 1175        | 100             | 850         |
| Closed | 2260        | 1110       | 1500        | 100             | 1350        |

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

Mobile: +971529597871

E-mail: [Info@ataswq.com](mailto:Info@ataswq.com)

Website: [www.ataswq.com](http://www.ataswq.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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Mobile: +971529597871

E-mail: [Info@ataswg.com](mailto:Info@ataswg.com)

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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



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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