



ATA

Makes Life Brighter

Generators & Switchgear Solutions

ATA John Deere 80, 4045TFG20 / 4045TFU20 80 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 m ³ /s	Total Harmonic Distortion THD (**) in linear load < 5 %	
Air flow 60 Hz	0.34 m ³ /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



LEROI 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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