



ATA

Makes Life Brighter

Generators & Switchgear Solutions

ATA John Deere 300, 6090HFG84 300KVA

Generator Power (prime)		300 kVA prime/330 kVA stand-by				
Speed	Operation	Engine		Gen drive rating		
		kW (Gross)	Fan power	Gen eff.	kVA	KWe
1500 rpm – 50 Hz	Prime power	277	15	93%	304	243
	Standby power	304	15	93%	336	269
1800 rpm – 60 Hz	Prime power	287	16	93%	315	252
	Standby power	315	16	93%	348	278

General Data

Model (Bare/Power Unit)	6090HFG84
Configuration	6 cylinders, in-line
Type	4-stroke
Displacement	9.0L
Bore and stroke	118.4 x 136 mm
Compression ratio	16.0 : 1
Rotation	Counterclockwise
Injection type	Electronic (HPCR)
Aspiration	Turbocharged (air to air cooled)
Starter	4.5 kW, 12V
Alternator	90 amp, 12V
Total lubricating capacity	40L
Service	Right hand side
Flywheel housing	SAE 2
Flywheel	11.5"
Cooling system	Water-cooled

Power Unit data

Model (Power Unit)	6090HFU84
Cooling system design	Radiator/CAC
Radiator material	Copper
Coolant ratio	50% ethylene glycol – 50% water
Engine coolant capacity	16L
Radiator coolant capacity	N/A
Air filter	Dry type

Fuel consumption (kg/h)

Frequency	Operation	25%	50%	75%	100%
1500 rpm – 50 Hz	Prime power	17.1	34.2	47.3	60.0
	Standby power	18.8	37.6	50.9	65.1
1800 rpm – 60 Hz	Prime power	18.3	35.7	50.8	61.0
	Standby power	20.1	39.1	55.1	64.3

Dimensions

Type	Length (mm)	Width (mm)	Height (mm)	Fuel Tank (L)	Weight (KG)
Open	2980	1200	1850	670	2228
Closed	4322	1463	2210	670	3220

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ALTERNATOR SPECIFICATIONS

TAL046 - 230 to 365 kVA - 50 Hz / 288 to 438 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	R150 R180
Number of wires	6 (12 option)	Excitation system 12-wire (option)	SHUNT AREP+ / PMG
Protection	IP 23	AVR type	R150 R180
Altitude	≤ 1000 m	Voltage regulation (**)	± 0.8 % ± 0.5 %
Overspeed	2250 R.P.M.	Total Harmonic Distortion THD (***) in no-load < 2.5 %	
Air flow 50 Hz	0.48 m ³ /s	Total Harmonic Distortion THD (***) in linear load < 5 %	
Air flow 60 Hz	0.58 m ³ /s	Waveform: NEMA = TIF (***)	< 50
AREP+/PMG Short-circuit current = 2.7 In: 5 seconds (*)		Waveform: I.E.C. = THF (***)	< 2%

Control Panel

DSE7320 MKII
Auto Mains (Utility) Failure Control Module
The DSE7320 MKII is a powerful, new generation Auto Mains (Utility) Failure genset control module with a highly sophisticated level of new features and functions, presented in the usual DSE user-friendly format. Suitable for a wide variety of single, diesel or gas Gen-set applications.
OVERALL SIZE
245 mm x 184 mm x 51 mm (9.6" x 7.2" x 2.0")
PANEL CUTOOUT SIZE
220 mm x 160 mm (8.7" x 6.3")
MAXIMUM PANEL THICKNESS
8.0 mm (0.3")
PRODUCT VARIANTS
7320-03 - 7320 MKII Auto Mains (Utility) Failure Control Module



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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