



ATA

Makes Life Brighter

Generators & Switchgear Solutions

ATA John Deere 180, 6068HF258 180 KVA

Speed (Hz)	Generator Efficiency %	Fan Power kW	Power Factor	Calculated Gen Set rating					
				Prime			Standby ⁽¹⁾		
				kW net	kVA	kWe	kW net	kVA	kWe
1500 (50)	88-92	6.5	0.8	160	175-183	140-147	177	194-202	155-162
1800 (60)	88-92	10.4	0.8	179	196-205	157-164	200	220-230	176-184

General Data
 Model 6068HF258
 Number of cylinders 6
 Bore and Stroke – mm (in.)106 x 127 (4.19 x 5.00)
 Displacement – dm³ (in³) 6.8 (414)
 Compression Ratio 17.0 : 1
 Valves per Cylinder – Intake/Exhaust 1 / 1
 Firing Order 1-5-3-6-2-4
 Combustion System Direct Injection
 Engine type In-line, 4-cycle
 Aspiration Turbocharged
 Charge Air Cooling System Air to air
 Engine Crankcase Vent System Open
 Engine Crankcase Pressure – kPa (in.H₂O) 0.5 (2)

Physical Data
 Length – mm (in.) 1500 (59)
 Width – mm (in.) 798 (31.4)
 Height – mm (in.) 1161 (45.7)
 Weight, dry – kg (lb) 764 (1684)
 (Includes flywheel housing, flywheel, & electrics)
 Center of gravity location
 From Rear Face of block (X-axis) – mm (in.) 450 (17.7)
 Right of Crankshaft (Y-axis) – mm (in.) -10 (-0.4)
 Above Crankshaft (Z-axis) – mm (in.) 176 (6.9)

Electrical Data
 Recommended Battery Capacity (CCA)
 12 Volt System – Amp 800
 24 Volt System – Amp 570
 Maximum Allowable Starting Circuit Resistance
 12 Volt System – Ohm 0.0012
 24 Volt System – Ohm 0.002
 Starter Rolling Current – 12 Volt System
 At 0°C (32°F) – Amp 920
 At -30°C (-22°F) – Amp 1300
 Starter Rolling Current – 24 Volt System
 At 0°C (32°F) – Amp 600
 At -30°C (-22°F) – Amp 700

Fuel consumption (kg/h)

Fuel Consumption – l/h	1500 rpm		1800 rpm	
	Prime = PRP	Standby = LTP	Prime = PRP	Standby = LTP
25% Power	10.7	11.5	12.6	13.5
50% Power	20.5	22.1	23.5	25.9
75% Power	31.3	34.4	36.1	39.9
100% Power	40.8	45.2	47.2	51.9

Rated power guaranteed within + or – 5% at SAE J1995 and ISO 3046

Dimensions

Type	Length (mm)	Width (mm)	Height (mm)	Fuel Tank (L)	Weight (KG)
Open	2248	900	1560	400	1560
Closed	3562	1155	1832	400	2201

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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 no-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

DSE6110

Auto Start Control Module
The DSE6110 MKIII is an Auto Start Control Module suitable for a wide variety of single, diesel or gas, genset applications.
OVERALL SIZE
216 mm x 158 mm x 43 mm (8.5" x 6.2" x 1.5")
PANEL CUTOUT SIZE
184 mm x 137 mm (7.2" x 5.3")
MAXIMUM PANEL THICKNESS
8.0 mm (0.3")
WEIGHT
0.5kg
PRODUCT VARIANTS
6110-05 - 6110 MKIII Auto Start 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



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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