



3 PHASE OUTPUTS				
GENERATOR SET MODEL	RATING	50HZ 380-415 V, 1500 rpm		
		KVA	KW	
JD-80	PRIME	79	63.2	
	STAND-BY	88	70.4	









- * Ratings at 0.8 pf Generator designed to operate in ambient temperatures up to 55 °C
- * Generating Set photo is for reference only.

ENGINE / TECHNICAL DATA			
Engine Make	John D	eere	
Engine Model	4045TF258		
Governing Type	Mecha	nical	
Cylinder Arrangement	Vertical	in line	
Number of Cylinders	4		
Bore and Stroke	106 x	127	
Displacement/Cubic Capacity liters	4.5		
Induction System	Turbocharged		
Cycle	4 stroke		
Combustion System	Direct Injection		
Compression Ratio	17:0:1		
Rotation	Anti-clockwise (viewed from flywheel)		
Cooling System	Water-cooled		
Frequency and Engine Speed	50Hz & 1500rpm		
	Prime	Standby	
Gross Engine Power kW (hp)	73.4 (98.4)	80.7 (108.2)	
FUEL CONSUMPTION (L/H)	44.0		
50%	11.8 16.5	-	
75%		-	
100%	23	•	
Total Lubrication System Capacity [liters]	13.2	13.2	
Total Coolant Capacity [ltrs]	8.5	8.5	
Exhaust Temperature °C	600	600	
Radiator Cooling Air Flow (Min): m ³ /sec	2.1 2.1		
Max. allowed back pressure (kPa)	7.5	7.5	
Exhaust Gas Flow: m³/sec	13.6	13.6	
Fuel Tank Capacity	180	180	

ALTERNAT	OR DATA
Make	Leroy Somer
Model	TAL 044B
No. of bearings	1
Insulation Class	Н
Total Harmonic	at no load <3 .5 % -on load <5 %
Content	-011 load <370
Wires	6
Ingress	IP23
Protection	
Excitation	SHUNT
System	
Winding Pitch	2/3 (wdg3)
AVR Model	R120
Overspeed	2250 mn ⁻¹
Voltage	<u>+</u> 1%
Regulation	

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Deepsea

Make

The auto starting control panel with	
Deepsea Controller has been	
designed and built to combine all	
the instruments control and the	
warning lights for engine and	
alternator. The sheet steel made	
panel is carefully painted for tropical	
climates and is designed for a dusty	
environment. Includes following	
equipment Ammeter with selector	
switch – water temperature meter –	
oil pressure meter- molded case	
three pole circuit breakers with	
thermal and magnetic release -	
automatic shut down in case of	
HWT, LOP and over speed -	
starting key and stop push button -	
acoustical signal - warning light for	
high cooling water temperature, low	
oil pressure, battery charging -	
hours meter. Automatic starting	
control board versions are available	
as option.	

	Dimensi	on and	Weight
	IMENSION	OPEN	SILENT
L	ength (L)	2000 mm	2300 mm
٧	Vidth (W)	770 mm	1110 mm
Н	leight (H)	1330 mm	1590 mm
N	let Weight	824 kg	1441 kg



RATING DEFINITIONS:

Prime Power - These ratings are applicable for supplying continuous power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

Standby Power - These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these rating. When used at standby Rating the alternator will be peak continuous rated (according to ISO3046)

STANDARD SPECIFICATIONS

1. ENGINE

John Deere heavy duty diesel engine.

1.1 GOVERNOR

Mechanical, compliance with ISO8528, Class G2.

2. COOLING RADIATOR

Radiator and cooling fan complete with protection guards, designed to cool the engine in ambient temperatures up to 55° C. The radiator is mounted on the base frame to avoid vibrations coming from the engine.

3. FILTRATION SYSTEM

Cartridge type air filter with security element. Cartridge fuel filter and full lube oil filter. All filters have replaceable elements.

4. EXHAUST SYSTEM

Heavy-duty industrial silencer.

5. ELECTRICAL SYSTEM

12 Volt system with battery charging alternator, Starter motor, High capacity maintenance free lead acid battery, battery rack mounted on the generating set base frame, and heavy duty interconnecting cables with terminations.

6. ALTERNATOR

Screen protected and drip-proof, self-exciting, selfregulating brush-less alternator. Four poles, STAR winding connection, suitable for tropical, humid and saline climates. H class insulation.

7. AUTOMATIC VOLTAGE REGULATOR (AVR)

Static electronic design voltage regulator. Steady voltage precision within + 1 % from no load to full load including cold and hot variations, at any Power factor between 0.8 and unity.

MOTOR STARTING

An overload capacity equivalent to between 160% to 300% (depending on alternator frame size) of full load impedance at zero power factor can be sustained for 10 seconds.

9. MOUNTING ARRANGEMENT

9.1 BASE FRAME

The complete generating set is mounted on heavy duty steel fabricated base frame Which is anti rust coated.

9.2 COUPLING

Engine and alternator are directly coupled by means of SAE flange so there is no possibility of misalignment after prolong use. The engine fly wheel is flexibly coupled to the alternator rotor.

9.3 ANTI VIBRATION MOUNTING PADS

Anti vibration pads are fitted between engine-alternator base frame ensuring complete vibration isolation of rotating assemblies.

10. FUEL SYSTEM

Metal Fuel tank of 8 hours capacity. The Fuel tank is easy to clean and is equipped with visual fuel level indicator.

11. DOCUMENTATION

A full set of operation and maintenance manual are provided.

12. FACTORY TESTS

Generating set is subject to a strict load test before delivery. A test certificate can be provided as optional.

13. QUALITY STANDARDS

Generating set meets the following standards ISO 8528, IEC 34.1, CEI 2.3, VDE 0530, BS 4999-5000, NF51-100. John Deere is fully accredited ISO 9001 company.

14. WARRANTY

Generating set is guaranteed for a period of 12 months from date of commissioning or18 months from date of shipment which ever occurs earlier. (check warranty statement for more details, as it may vary for different countries)

In line with our policy of continuous product development, we reserve right to change specification without notice

AVAILABLE OPTIONS & ACCESSORIES

We offer a range of optional features and accessories to tailor our generating sets to meet your needs.

OPTIONS

- Generator Set control and synchronizing panels
- Additional Protection alarms and shutdowns
- Water fuel separator
- Water jacket heater
- Battery charger

Distributed and Serviced by:



ACCESSORIES

- Genuine spare parts
- **Fuel Tanks**
- Manual and Automatic Transfer Switches

STANDARD REFERENCE CONDITIONS

Fuel consumption data at various loads, diesel fuel with a specific gravity of 0.85kG/L. De-ration may apply, please consult your dealer for specific site ratings.

Some of the specifications are not standard on all Genset Models.























