

## General Characteristics

Model Name	15608
Frequency (Hz)	50
Fuel Type	Diesel
Engine Made and Model	JOHN DEERE 6068HFG55
Alternator Made and Model	ECO 38-1L/4 A
Control Panel Model	7320
Canopy	MS 60

## Power (kVA)

3 Phase, 50 Hz, PF 0.8

VOLTAGE	STANDBY RATING (ESP)		PRIME RATING (PRP)		Standby Amper
	kW	kVA	kW	kVA	
400/231	220.0	275	200.0	250	396.94

**STANDBY RATING (ESP)(ESP):** Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. ESP is in accordance with ISO 8528. Overload is not allowed.

**PRIME RATING (PRP)(PRP):** Applicable for supplying power to varying electrical load for unlimited hours. PRP is in accordance with ISO 8528. 10 % overload capability is available for a period of 1 hour within 12-hour period of operation, in accordance with ISO 3046.

## OPTIONAL EQUIPMENTS



# John Deere 275 kVA

## ENGINE

- Remote Radiator Cooling
- Electronic governor control
- Fuel-Water Separator Filter
- Low water level alarm
- Oil heater

## ALTERNATOR

- Anti-Condensation Heater
- Over sized alternator
- Main line circuit breaker

## CONTROL SYSTEM

- Remote annunciator panel
- Remote relay output
- Alarm output relays
- Remote communication with modem
- Earth fault, single set
- Charge Ammeter

## TRANSFER SWITCH

- Three Pole Contactor
- Four Pole Contactor
- Three or four pole motor operated circuit breaker

## OTHER ACCESSORIES

- Main Fuel Tank
- Automatic or manual fuel filling system
- Manual oil drain pump
- Residential silencer
- Enclosure: weather protective or sound attenuated
- Duct adapter ( on radiator)
- Inlet and outlet motorized louvers
- Inlet and outlet acoustic baffles
- Trailer
- Tool kit for maintenance
- 1500/3000 hours maintenance kit
- Double wall chassis
- Supplied with oil and coolant - 30 °C
- Battery isolating switch
- Automatic transfer switch

## STANDARD SPECIFICATIONS

Water cooled, Diesel engine  
Radiator with mechanical fan  
Protective grille for rotating and hot parts  
Electric starter and charge alternator  
Starting battery (with lead acid) including rack and cables  
Engine coolant heater  
Base frame design incorporates an integral fuel tank and anti-vibration isolators  
Flexible fuel connection hoses  
Single bearing, class H alternator  
Industrial exhaust silencer and steel bellows supplied separately(for open sets) Static battery charger  
Manual for application and installation

## ALTERNATOR CHARACTERISTICS

### GENERAL DATA

Manufacturer	Mecc Alte
Alternator Made and Model	ECO 38-1L/4 A



## John Deere 275 kVA

Frequency (Hz)	50
Power (kVA)	250
VOLTAGE (V)	400
Phase	3
A.V.R.	DSR
Voltage Regulation	(+/-)1%
Insulation System	H
Protection	IP21
Rated Power Factor	0.8
WEIGHT WOUND ROTOR (Kg)	147.5
COOLING AIR	32

### ENGINE SPECIFICATIONS

Engine	JOHN DEERE
Engine Model	6068HFG55
Number of Cylinder (L)	6 cylinders - in line
Bore	106
Stroke	127
Displacement	6,8
Aspiration	Turbo Charged and After Cooled
Compression Ratio	17.2:1
RPM (d/dk)	1500
Oil Capacity (Total With Filter) (lt)	33
Stand by Power kwm/hp (gross)	250/335
Prime Power kwm/hp (gross)	227/304
Block Heater QTY	1
Block Heater Power (Watt)	1500
Fuel Type	Diesel
Injection Type and System	Direct
Type of Fuel Pump	HPCR (High Pressure Common Rail)
Governor System	Electronic
Operating Voltage (Vdc)	12 Vdc
Battery and Capacity (Qty/Ah)	1x85
Cooling Method	Water Cooled
Cooling Fan Air Flow (m3/min)	301
Coolant Capacity (engine only / with radiator) (lt)	12.7/31.2
Air Filter	Dry Type
Fuel Cons. Prime With %100 Load (lt/hr)	45.1
Fuel Cons. Prime With %75 Load (lt/hr)	34.3
Fuel Cons. Prime With %50 Load (lt/hr)	23.3



# John Deere 275 kVA

## Open Gen.Set Dimensions (mm)

LENGHT	2750
WIDTH	1300
HEIGHT	1660
DRY WEIGHT	2020
TANK CAPACITY	470

## Gen.Set Canopy Dimensions (mm)

LENGHT	3960
WIDTH	1360
HEIGHT	2100
DRY WEIGHT	2700
TANK CAPACITY	470

## INTRODUCTION

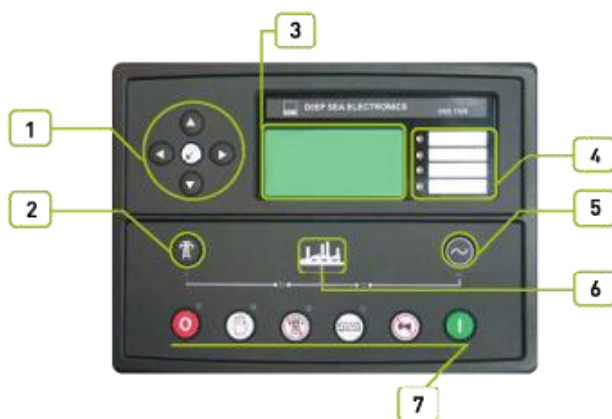
Sound-attenuated and weather protective enclosures for generating sets from us, meet event the sound requirements and provide optimum protection from inclement weather and development by our specialist acoustic engineers. Our modular designed sound insulated canopies provide ease of access for servicing and general maintenance and interchangeable components permitting on-site repair. Enclosures are designed to optimize genset cooling performance, providing you with confidence that genset ratings and ambient capability.

## STANDARD SPECIFICATIONS

Compact footprint, low profile design.  
 Enclosure, generator set, exhaust system and fuel tank are pre-assembled, pre-integrated and shipped as one package  
 Body made from steel components treated with polyester powder coating  
 Fire retardant foam insulation  
 Easy access to all service points  
 Exhaust system inside canopy  
 Large doors on each side  
 Control panel viewing window in a lockable access door  
 Emergency stop push button mounted on enclosure exterior  
 Cooling fan and battery charging alternator fully guarded  
 Fuel fill and battery can only be reached via lockable access doors.  
 Lifting points on the top of canopy and base frame  
 Customer options available to meet your applications needs.  
 We make our generating sets' noise level tests in accordance with directive 2000/14/EC validation of the noise level test has been approved by the notified body Szutest

## Control Panel

Control Module	DSE
Control Module Model	7320
Communication Ports	MODBUS



1. Menu navigation buttons
2. Close mains button
3. Main Status and instrumentation display
4. Alarm LED's
5. Close generator button
6. Status LED's
7. Operation selecting buttons

## Devices

DSE, model 7320 Auto Mains Failure control module Static battery charger Emergency stop push button and fuses for control circuits

## CONSTRUCTION and FINISH

Components installed in sheet steel enclosure.  
 Phosphate chemical, pre-coating of steel provides corrosion resistant surface  
 Polyester composite powder topcoat forms high gloss and extremely durable finish  
 Lockable hinged panel door provides for easy component access

## INSTALLATION

Control panel is mounted generating set baseframe on robust steel stand or power module. Located at side of generating set with properly panel visibility.

## GENERATING SET CONTROL UNIT

The DSE 7320 control module is a standard addition to our generator sets from 220 kVA upwards and it has been designed to start and stop diesel and gas generating sets that include electronic and nonelectronic engines. The DSE 7320 includes the additional capability of being able to monitor a mains (utility) supply and is therefore suitable for controlling a standby generating set in conjunction with an automatic transfer switch. The DSE7320 also indicates operational status and fault conditions, automatically shutting down the generating set and indicating faults by means of its LCD display on the front panel.

## STANDARD SPECIFICATIONS

Microprocessor controlled

- 132 x 64 pixel LCD display makes information easy to read
- Front panel programming and also via PC software
- Soft touch membrane keypad and five key menu navigation
- Remote communications via RS232, RS485 and ethernet and SMS messaging
- Event logging (50) showing date and time
- Multiple date and time engine exercise mode and maintenance scheduler
- Engine block heater control.
- Controls; stop, manual, auto, test, start, mute lamb test/transfer to generator, transfer to mains, menu navigation.

## INSTALLATION

### ENGINE

Engine speed  
Oil pressure  
Coolant temperature  
Run time Battery volts  
Engine maintenance due

### GENERATOR

Voltage (L-L, L-N)  
Current (L1-L2-L3)  
Frequency  
Earth current  
kW  
Pf  
kVAr  
kWh, kVAh, kVArh  
Phase sequence

### MAINS

Voltage (L-L, L-N)  
Frequency

## Protection Circuits

### WARNING

Charge failure  
Battery under voltage  
Fail to stop  
Low fuel level (opt.)  
kW over load  
Negative phase sequence  
Loss of speed signal

### PRE-ALARMS

Low oil pressure  
High engine temperature  
Low engine temperature  
Over /Under speed  
Under/over generator frequency  
Under/over generator voltage  
ECU warning

### SHUT DOWNS

Fail to start  
Emergency stop  
Low oil pressure  
High engine temperature  
Low coolant level  
Over /Under speed  
Under/over generator frequency  
Under/over generator voltage  
Oil pressure sensor open  
Phase rotation

### ELECTRICAL TRIP

Earth fault  
kW over load  
Generator over current  
Negative phase sequence

## Options

High oil temperature shut down  
Low fuel level shut down  
Low fuel level alarm  
High fuel level alarm

### EXPANSION MODULES

Editional LED module (2548)  
Expension relay module (2157)  
Expansion input module (2130)

## Standards

Electrical Safety / EMC compatibility

BS EN 60950 Electrical business equipment  
BS EN 61000-6-2 EMC immunity standard  
BS EN 61000-6-4 EMC emission standard

### **STATIC BATTERY CHARGER**

Battery charger is manufactured with switching-mode and SMD technology and it has high efficiency. Battery charger models' output V-I characteristic is very close to square. 2405 has fully output short circuit protection and it can be used as a current source. 2405 charger has high efficiency, long life, low failure rate, light weight and low heat radiated in accordance with linear alternatives.

The charger is fitted with a protection diode across the output.

Charge fail output is available.

Connect charge fail relay coil between positive output and CF output.

Input: 196-264V.

Output: 27,6V 5A or 13,8V 5A.

### **FACTORY CERTIFICATES**

TS ISO 8528

TS ISO 9001-2008

CE

SZUTEST

2000/14/EC