



### DESCRIPTIVE

Mechanic governor

Hechanically welded chassis with antivibration suspension

Main line circuit breaker

Radiator for wiring temperature of 48/50°C max with mechanical fan

- Protective grille for fan and rotating parts
- 9 dB(A) silencer supplied separately
- Charger DC starting battery with electrolyte
- 12 V charge alternator and starter
- Delivered with oil and coolant -30°C
- Manual for use and installation

#### **POWER DEFINITION**

**PRP** : Prime Power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO 8528-1.

ESP : The standby power rating is applicable for

supplying emergency power in variable load applications in accordance with ISO 8528-1. Overload is not allowed.

#### **TERMS OF USE**

According to the standard, the nominal power assigned by the genset is given for 25°C Air Intlet Temperature, of a barometric pressure of 100 kPA (100 m A.S.L), and 30 % relative humidity. For particular conditions in your installation, refer to the derating table.

For the generating sets used indoor, where the acoustic pressure levels depends on the installation conditions, it is not possible to specify the ambient noise level in the exploitation and maintenance instructions. You will also find in our exploitation and maintenance instructions a warning concerning the air noise dangers and the need to implement appropriated preventive measures.

## **J220C2**

Engine type Alternator type 6068HFS77 LSA 46.2 M5

CENEDAL		
GENERAL	CHARACTERISTICS	

Frequency (Hz)	50
Reference voltage (V)	400/230
Max power ESP (kVA)	220
Max power ESP (kWe)	176
Max power PRP (kVA)	200
Max power PRP (kWe)	160
Intensity (A)	318
Standard Control Panel	NEXYS
Optional control panel	TELYS

### **DIMENSIONS AND NOISE LEVELS**

DIMENSIONS COMPACT VERSION	
Length (mm)	2398
Width (mm)	1114
Height (mm)	1480
Dry weight (kg)	1790
Tank capacity (L)	340

DIMENSIONS SOUNDPROOFED VER	SION
Canopy	M226
Length (mm).	3508
Width (mm).	1200
Height (mm).	1830
Dry weight (kg).	2390
Tank capacity (L).	340
Acoustic pressure level @1m in dB(A) (associated uncertainty)	79 (0.23)
Sound power level guaranteed (Lwa) in dB(A)	97

POWERS	5				
Voltage	ES	SP	Ρ	RP	Standby Amps
Voltago	kWe	kVA	kWe	kVA	otanaby / impo
415/240	176	220	160	200	306
400/230	176	220	160	200	318
380/220	176	220	160	200	334
240 TRI	176	220	160	200	529
230 TRI	176	220	160	200	552
220 TRI	176	220	160	200	577
200/115	176	220	160	200	635



# J220C2

## **ENGINE SPECIFICATIONS**

### **GENERAL ENGINE DATAS**

JOHN DEERE 6068HFS77 , 4- temps, Turbo , Air/Air DC 6 X
L
6.72
106 x 127
17 : 1
1500
6.35
207
+/- 0.5%
22.37
Electronic

### **COOLING SYSTEM**

Radiator & Engine capacity (L)	30
Max water temperature (°C)	105
Outlet water temperature (°C)	93
Fan power (kW)	3.4
Fan air flow w/o restriction (m3/s)	5.1
Available restriction on air flow (mm EC)	20
Type of coolant	Coolelf sx
Thermostat (°C)	82-94

## EMISSIONS

Emission PM (g/kW.h)	0,053
Emission CO (g/kW.h)	N/A
Emission HCNOx (g/kWh)	5,6
Emission HC (g/kW.h)	N/A

EXHAUST	
Exhaust gas temperature (°C)	567
Exhaust gas flow (L/s)	545
Max. exhaust back pressure (mm EC)	750

FUEL		
Consumption @ 110% load (L/h)	50	
Consumption @ 100% load (L/h)	45	
Consumption @ 75% load (L/h)	34	
Consumption @ 50% load (L/h)	23	
Maximum fuel pump flow (L/h)	N/A	

OIL	
Oil capacity (L)	33
Min. oil pressure (bar)	1
Max. oil pressure (bar)	2.6
Oil consumption 100% load (L/h)	N/A
Carter oil capacity (L)	32

HEAT BALANCE	
Heat rejection to exhaust (kW)	N/A
Radiated heat to ambiant (kW)	N/A
Haet rejection to coolant (kW)	80+28

AIR INTAKE	
Max. intake restriction (mm EC)	625
Intake air flow (L/s)	197



# J220C2

## **ALTERNATOR SPECIFICATIONS**

### **GENERAL DATAS**

LEROY SOMER
LSA 46.2 M5
3
0.8
0 à 1000
2250
4
SHUNT
H / H / 125°K
N/A
< 2.5%
< 50
< 2%
1
Direct
+/- 0.5%
500 ms

### **OTHER DATAS**

	200
Continuous Nominal Rating 40°C (kVA)	
Standby Rating 27°C (kVA)	223
Efficiencies 4/4 load (%)	92.3
Air flow (m3/s)	0.43
Short circuit ratio (Kcc)	0.45
Direct axis synchro reactance unsaturated (Xd) (%)	301
Quadra axis synchro reactance unsaturated (Xq) (%)	180
Open circuit time constant (T'do) (ms)	2042
Direct axis transcient reactance saturated (X'd) (%)	14.7
Short circuit transcient time constant (T'd) (ms)	100
Direct axis subtranscient reactance saturated (X"d) (%)	8.8
Subtranscient time constant (T"d) (ms)	10
Quadra axis subtranscient reactance saturated (X"q) (%)	10.9
Zero sequence reactance unsaturated (Xo) (%)	0.8
Negative sequence reactance saturated (X2) (%)	9.9
Armature time constant (Ta) (ms)	15
No load excitation current (io) (A)	1
Full load excitation current (ic) (A)	3.7
Full load excitation voltage (uc) (V)	32
Recovery time (Delta U = 20% transcient) (ms)	500 ms
Engine start (Delta U = 20% perm. or 50% trans.) (kVA)	397
Transcient dip (4/4 load) - PF : 0,8 AR (%)	15.4
No load losses (W)	3040
Heat rejection (W)	13180

#### CONTAINMENT Canopy M226 DW Length (mm). 3560 Width (mm). 1200 Height (mm). 2182 Dry weight (kg). 2760 868 Tank capacity (L). Acoustic pressure level @1m in dB(A) (associated 78 (0.23) uncertainty) Sound power level guaranteed (Lwa) in dB(A) 97

## **DIMENSIONS AND NOISE LEVELS**





## **CONTROL PANEL**

### NEXYS, comprehensive and simple

### TELYS, ergonomic and user-friendly



The NEXYS is a versatile control unit allowing operation in manual or automatic mode. Equipped with an LCD screen, the user-friendly NEXYS offers high-quality basic functions to guarantee simple, reliable operation of your generating set.

Offers the following functions:

**Standard electrical measurements:** voltmeter, frequency meter, ammeter.

**Engine parameters:** working hours counter, engine speed, battery voltage, fuel level.

**Alarms and faults:** oil pressure, coolant temperature, failure to start, overspeed (> 60 kVA), charging alternator fault, low fuel level, emergency stop.

For more information, please refer to the sales documentation.



The highly versatile TELYS control unit is complex yet accessible, thanks to the particular attention paid to optimising its ergonomics and ease of use. With its large display screen, buttons and scroll wheel, it places the accent on simplicity and communication.

The TELYS offers the following functions:

**Electrical measurements:** voltmeter, frequency meter, ammeter.

**Engine parameters:** working hours counter, oil pressure, coolant temperature, fuel level, engine speed, battery voltage.

**Alarms and faults:** oil pressure, coolant temperature, failure to start, overspeed, alternator min./max., battery voltage min./max., emergency stop, fuel level.

**Ergonomics:** wheel for navigating around the various menus.

**Communication:** remote control and operation software, USB connections, PC connection.

For more information on the product and its options, please refer to the sales documentation.