



#### DESCRIPTIVE

- ➔ Stage 3a engine
- ➔ Leroy-Somer AREP (TS26-S004) Alternator
- ➔ Four-pole circuit breaker
- ➔ Connection terminal box rental type
- ➔ Containment fuel tank and large autonomy
- ➔ Forks and frame protection pads
- ➔ Adjustable earth fault protection and earthing rod
- ➔ Inlet air preheating
- ➔ Battery isolating switch
- ➔ Oil drainage pump
- ➔ Heavy duty air filter with interchangeable cartridge
- ➔ Primary filter
- ➔ Heat hand protections (EC standard)
- ➔ Access door to the radiator
- ➔ Electronic governor with speed ajustement



#### 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.

#### ASSOCIATED UNCERTAINTY

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.

## R330C3 (CE)

Engine type	6090HFS86
Alternator type	LSA 46.2 VL12
Canopy Type	M3227 DW

#### GENERAL CHARACTERISTICS

Frequency (Hz)	50
Voltage (V)	400/230
Max power ESP (kVA)	330
Max power ESP (kWe)	264
Max power PRP (kVA)	300
Max power PRP (kWe)	240
Intensity (A)	476
Standard Control Panel	NEXYS

#### LARGE AUTONOMY DIMENSIONS

Length (mm).	4332
Width (mm).	1361
Height (mm).	2431
Dry weight (kg).	4210
Tank capacity (L).	1083
Autonomy @ 75% of load (h)	21.40
Autonomy @ 50% of load (h)	29.60

#### SOUND LEVELS

Acoustic pressure level @1m in dB(A) ( )	78 (0.70)
Acoustic pressure level @7m in dB(A) ( )	67 (0.70)
Sound power level guaranteed (Lwa)	97



# R330C3 (CE)

## ENGINE SPECIFICATIONS

### GENERAL ENGINE DATAS

Description	6090HFS86
Engine model	JOHN DEERE
Cylinder arrangement	L
Number of cylinders	6
Displacement (C.I.)	8.98
Bore (mm) x Stroke (mm)	118.40 x 136
Compression ratio	16 : 1
Speed (RPM)	1500
Pistons speed (m/s)	6.80
Maximum stand-by power at rated RPM (kW)	304
Frequency regulation (%)	+/- 0.5%
BMEP (bar)	24.63
Governor type	Electronic

### COOLING SYSTEM

Radiator & Engine capacity (L)	N/A
Max water temperature (°C)	110
Outlet water temperature (°C)	N/A
Fan power (kW)	N/A
Fan air flow w/o restriction (m3/s)	N/A
Available restriction on air flow (mm EC)	N/A
Type of coolant	Glycol-Ethylene

### EMISSIONS

Emission HC (g/kW.h)	0.05
Emission HCNOx (g/kWh)	3.89
Emission CO (g/kW.h)	0.91
Emission PM (g/kW.h)	0.11

### EXHAUST

Exhaust gas flow (L/s)	962
Exhaust gas temperature (°C)	714
Max. exhaust back pressure (mm EC)	765

### FUEL

Consumption @ 110% load (L/h)	69.50
Consumption @ 100% load (L/h)	68.60
Consumption @ 75% load (L/h)	50.70
Consumption @ 50% load (L/h)	36.60
Maximum fuel pump flow (L/h)	N/A

### OIL

Oil capacity (L)	40
Min. oil pressure (bar)	1.05
Max. oil pressure (bar)	N/A
Oil consumption 100% load (L/h)	0.033
Carter oil capacity (L)	N/A

### HEAT BALANCE

Radiated heat to ambient (kW)	30
Heat rejection to coolant (kW)	113.9

### AIR INTAKE

Max. intake restriction (mm EC)	637
Intake air flow (L/s)	367

### GENERAL DATAS

Description	LSA 46.2 VL12
Alternator brand	LEROY SOMER
Number of phase	3
Altitude (m)	0 à 1000
Overspeed (rpm)	2250
Number of pole	4
Excitation system	AREP
Insulation class	H
AVR	R450
Sustained short circuit current	3 IN for 10S
Harmonic factor, no load TGH/THC (%)	<2.5
Harmonic factor, on load TGH/THC (%)	<2.5C
Wave form : CEI=FHT-(TGH/THC)	<2
Wave form : NEMA=TIF-(TGH/THC)	<50
Number of bearing	1
Coupling	Direct
Voltage regulation at established rating (%)	+/- 0.5%
Air flow (m3/s)	0.43

### OTHER DATAS

No load excitation current (io) (A)	1
Full load excitation current (ic) (A)	3.40
Full load excitation voltage (uc) (V)	33
Recovery time (Delta U = 20% transient) (ms)	500 ms
Engine start (Delta U = 20% perm. or 50% trans.) (kVA)	760
Transient dip (4/4 load) - PF : 0,8 AR (%)	11.40
No load losses (W)	4800
Heat rejection (W)	16880

### REACTANCES (R) - TIME CONSTANT(CT)

Short circuit ratio (Kcc)	0.50
Direct axis synchro reactance unsaturated (Xd) (%)	276
Quadra axis synchro reactance unsaturated (Xq) (%)	166
Open circuit time constant (T"do) (ms)	2253
Direct axis transient reactance saturated (X"d) (%)	12.20
Short circuit transient time constant (T"d) (ms)	100
Direct axis subtransient reactance saturated (X""d) (%)	7.30
Subtransient time constant (T""d) (ms)	10
Quadra axis subtransient reactance saturated (X""q) (%)	9
Zero sequence reactance unsaturated (Xo) (%)	0.50
Negative sequence reactance saturated (X2) (%)	8.20
Armature time constant (Ta) (ms)	15

### POWERS

Power factor (Cos Phi)	N/A
Continuous Nominal Rating 40°C (kVA)	318
Standby Nominal Rating 40°C (kVA)	330
Standby Rating 27°C (kVA)	350
Efficiencies 4/4 load (%)	93.70

NEXYS, comprehensive and simple



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.

TELYS, ergonomic and user-friendly



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.

**Automatic control:** automatic start.

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