



DESCRIPTIVE

- ➔ Four-pole circuit breaker
- ➔ Central lifting ring
- ➔ Primary filter
- ➔ Oil drainage pump
- ➔ Battery isolating switch
- ➔ Containment fuel tank and large autonomy
- ➔ Inlet air preheating
- ➔ Differential protection and earthing rod
- ➔ Rental Compact canopy
- ➔ Leroy-Somer AREP (TS26-S004) Alternator
- ➔ Forks and frame protection pads
- ➔ Heavy duty air filter with interchangeable cartridge

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 Inlet 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.

R66C2C (CE)

Engine type	4045TFS70
Alternator type	LSA 43.2 M45
Canopy Type	M3128

GENERAL CHARACTERISTICS

Frequency (Hz)	50
Reference voltage (V)	400/230
Max power ESP (kVA)	66
Max power ESP (kWe)	52.80
Max power PRP (kVA)	60
Max power PRP (kWe)	48
Intensity (A)	95
Standard Control Panel	NEXYS

LARGE AUTONOMY DIMENSIONS

Length (mm).	2545
Width (mm).	1150
Height (mm).	1824
Dry weight (kg).	1650
Tank capacity (L).	390
Autonomy @ 75% of load (h)	N/A
Autonomy @ 50% of load (h)	N/A

SOUND LEVELS

Acoustic pressure level @1m in dB(A) ()	72 (0.70)
Acoustic pressure level @7m in dB(A) ()	61 (0.70)
Sound power level guaranteed (Lwa)	91



R66C2C (CE)

ENGINE SPECIFICATIONS

GENERAL ENGINE DATAS

Description	4045TFS70
Engine model	JOHN DEERE
Cylinder arrangement	L
Number of cylinders	4
Displacement (C.I.)	4.48
Bore (mm) x Stroke (mm)	106 x 127
Compression ratio	N/A
Speed (RPM)	1500
Pistons speed (m/s)	6.35
Maximum stand-by power at rated RPM (kW)	61
Frequency regulation (%)	+/- 0.5%
BMEP (bar)	9.81
Governor type	Mechanical

COOLING SYSTEM

Radiator & Engine capacity (L)	8.50
Max water temperature (°C)	105
Outlet water temperature (°C)	N/A
Fan power (kW)	0.70
Fan air flow w/o restriction (m3/s)	N/A
Available restriction on air flow (mm EC)	20
Type of coolant	Gencool

EMISSIONS

Emission HC (g/kW.h)	0.47
Emission HCNOx (mg/Nm3)	N/A
Emission CO (g/kW.h)	1.04
Emission PM (g/kW.h)	0.3

EXHAUST

Exhaust gas flow (L/s)	195
Exhaust gas temperature (°C)	535
Max. exhaust back pressure (mm EC)	750

FUEL

Consumption @ 110% load (L/h)	16.09
Consumption @ 100% load (L/h)	14.75
Consumption @ 75% load (L/h)	11.26
Consumption @ 50% load (L/h)	7.41
Maximum fuel pump flow (L/h)	N/A

OIL

Oil capacity (L)	N/A
Min. oil pressure (bar)	0
Max. oil pressure (bar)	N/A
Oil consumption 100% load (L/h)	0.04
Carter oil capacity (L)	N/A

HEAT BALANCE

Radiated heat to ambient (kW)	7.38
Heat rejection to coolant (kW)	39.00

AIR INTAKE

Max. intake restriction (mm EC)	300
Intake air flow (L/s)	83.33

GENERAL DATAS

Description	LSA 43.2 M45
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
Regulation	R438
Sustained short circuit current	3 IN for 10S
Harmonic factor, no load TGH/THC (%)	<2
Harmonic factor, on load TGH/THC (%)	<2C
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)	0,27

OTHER DATAS

No load excitation current (io) (A)	0.80
Full load excitation current (ic) (A)	3.20
Full load excitation voltage (uc) (V)	15
Recovery time (Delta U = 20% transient) (ms)	500 ms
Engine start (Delta U = 20% perm. or 50% trans.) (kVA)	176
Transient dip (4/4 load) - PF : 0,8 AR (%)	12.80
No load losses (W)	1120
Heat rejection (W)	5890

REACTANCES (R) - TIME CONSTANT(CT)

Short circuit ratio (Kcc)	0.39
Direct axis synchro reactance unsaturated (Xd) (%)	304
Quadra axis synchro reactance unsaturated (Xq) (%)	182
Open circuit time constant (T'do) (ms)	1270
Direct axis transient reactance saturated (X'd) (%)	11.90
Short circuit transient time constant (T'd) (ms)	50
Direct axis subtransient reactance saturated (X''d) (%)	5.90
Subtransient time constant (T''d) (ms)	5
Quadra axis subtransient reactance saturated (X''q) (%)	7.40
Zero sequence reactance unsaturated (Xo) (%)	0.50
Negative sequence reactance saturated (X2) (%)	6.70
Armature time constant (Ta) (ms)	8

POWERS

Power factor (Cos Phi)	N/A
Continuous Nominal Rating 40°C (kVA)	60
Standby Nominal Rating 40°C (kVA)	63
Standby Rating 27°C (kVA)	66
Efficiencies 4/4 load (%)	89

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.