



Version Full Rental Power

BASE

- Simplified connection terminal box
- Four-pole circuit breaker
- Central lifting ring
- soundproofed enclosure dedicated to rental
- Fuel low level
- AREP Leroy-Somer alternator
- Easy access to the radiator
- Swing valve

ADDITIONAL EQUIPMENT - FULL

- Containment fuel tank and large autonomy
- Primary filter
- Voltage adjustment potentiometer
- Fixed earth fault protection and earth rod
- Battery isolating switch
- Drainage pump



Prime Power

PRP : Prime Power is available for an unlimited number of annual operating hours in variable load applications (Mitsubishi Engines are limited to 2000 hours a year), in accordance with ISO8528-1. The average power output shall not exceed x% of the prime power rating, in accordance with ISO 3046-1.

Standby power

ESP : The Standby Power Rating is applicable for supplying emergency power in variable load applications for up to 200 hours per year (Mitsubishi Engines are limited to 100 hours a year) in accordance with ISO8528-1. Overload is not allowed.

R16C (CE)

Motor type	S4L2-SD
Alternator type	LSA422S4
Canopy Type	M126

GENERAL CHARACTERISTICS

Frequency (Hz)	50
Reference voltage (V)	400/230
Max power (kVA)	16
Max power ESP (kWe)	12.8
Max power ESP (kVA)	14.5
Max power PRP (kWe)	11.6
Intensity (A)	23
Standard Control Panel	NEXYS
Optional control panel	TELYS

DIMENSIONS

Length (mm)	1797
Width (mm)	775
Height (mm)	1391
Dry weight (kg)	672
Tank capacity (L)	93
Autonomy @ 50% of load (h)	32.2
Autonomy @ 75% of load (h)	24.6

DIMENSIONS BASE VERSION

Length (mm)	1750
Width (mm)	775
Height (mm)	1230
Dry weight (kg)	610
Tank capacity (L)	50
Autonomy @ 50% of load (h)	19.2
Autonomy @ 75% of load (h)	14.7

NOISE LEVEL

dB(A)@1m (50Hz)	70.7
dB(A)@7m (50Hz)	60.7
dB(A)@15m (50Hz)	56.7
LWA (50Hz)	87

ENGINE SPECIFICATIONS

GENERAL CHARACTERISTICS

Description	S4L2-SD
Motor model	MITSUBISHI
Cylinder arrangement	L
Number of cylinders	4
Bore (mm)	78
Stroke (mm)	92
Displacement (C.I.)	1.76
Compression ratio	22 : 1
Speed (RPM)	1500
Pistons speed (m/s)	4.6
Maximum stand-by power at rated	16.61
Governor type	Mechanical
Frequency regulation (%)	+/- 2.5%
BMEP (bar)	6.87

COOLING SYSTEM

Radiator & Engine capacity (L)	4.9
Max water temperature (°C)	111
Outlet water temperature (°C)	93
Fan power (kW)	0.5
Fan air flow w/o restriction (m ³ /s)	0.8
Available restriction on air flow (mm)	10
Type of coolant	Gencool
Thermostat (°C)	82-95

EXHAUST

Exhaust gas flow (L/s)	48.7
Exhaust gas temperature (°C)	410
Max. exhaust back pressure (mm CE)	700

FUEL

Consumption @ 100% load (L/h)	4.4
Consumption @ 75% load (L/h)	3.4
Consumption @ 50% load (L/h)	2.6
Maximum fuel pump flow (L/hr)	18

OIL SYSTEM

Oil capacity (L)	5.9
Min. oil pressure (bar)	1
Max. oil pressure (bar)	4
Oil consumption 100% load (L/h)	0.025
Carter oil capacity (L)	5.4

HEAT BALANCE

Heat rejection to exhaust (kW)	14
Radiated heat to ambient (kW)	2
Heat rejection to coolant (kW)	14

AIR INTAKE

Intake air flow (L/s)	18.2
Max. intake restriction (mm CE)	200

ALTERNATOR

GENERAL CHARACTERISTICS

Description	LSA 42.2 S4
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" 10s
#Taux d'harmonique à vide TGH/THC	< 4%
#Taux d'harmonique en charge	< 4%
Wave form : CEI=FHT-(TGH/THC)	< 2%
Wave form : NEMA=TIF-(TGH/THC)	< 50
Number of bearing	1
Coupling	Direct
#Régulation de tension à régime	+/- 0.5%
Air flow (m3/s)	0.15

OTHER CHARACTERISTICS

No load excitation current (io) (A)	0.9
Full load excitation current (ic) (A)	2.1
Full load excitation voltage (uc) (V)	13
Recovery time (Delta U = 20%)	500
Motor start (Delta U = 20% perm. or	51
Transient dip (4/4 charge) - PF : 0,8	13.6
No load losses (W)	590
Heat rejection (W)	2000

REACTANCES (R) - TIME CONSTANT(CT)

Short circuit ratio (Kcc)	0.76
Direct axis synchro reactance	160
Quadra axis synchro reactance	80
Open circuit time constant (T'do)	410
Direct axis transient reactance	10.1
Short circuit transient time constant	30
Direct axis subtransient reactance	5
Subtransient time constant (T"d) (ms)	3
Quadra axis subtransient reactance	7.1
Zero sequence reactance unsaturated	0.8
Negative sequence reactance	6
Armature time constant (Ta) (ms)	4

POWERS

Power factor (Cos Phi)	0.8
Continuous Nominal Rating 40°C	17.5
Standby Nominal Rating 40°C (kVA)	20
Standby Rating 27°C (kVA)	21
Efficiencies 4/4 load (%)	87.6

CONTROL PANELS

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, oil pressure, coolant temperature.

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

Automatic control: automatic start.

For more information, please refer to the sales

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.