



Version Full Rental Power

BASE

- Analog engine
- Simplified connection terminal box
- Four-pole circuit breaker
- Central lifting ring
- Inlet air preheating
- 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
- Connection terminal box rental type
- 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.

R44C2 (CE)

Motor type	S4S-Z2DT62SD
Alternator type	LSA432S15-AR
Canopy Type	M127

GENERAL CHARACTERISTICS

Frequency (Hz)	50
Reference voltage (V)	400/230
Max power (kVA)	42
Max power ESP (kWe)	33.6
Max power ESP (kVA)	38.2
Max power PRP (kWe)	30.5
Intensity (A)	61
Standard Control Panel	NEXYS
Optional control panel	TELYS

DIMENSIONS

Length (mm)	2160
Width (mm)	966
Height (mm)	1582
Dry weight (kg)	1120
Tank capacity (L)	230
Autonomy @ 50% of load (h)	39.1
Autonomy @ 75% of load (h)	26.9

DIMENSIONS BASE VERSION

Length (mm)	2080
Width (mm)	960
Height (mm)	1415
Dry weight (kg)	930
Tank capacity (L)	100
Autonomy @ 50% of load (h)	18.9
Autonomy @ 75% of load (h)	13

NOISE LEVEL

dB(A)@1m (50Hz)	72.9
dB(A)@7m (50Hz)	62.9
dB(A)@15m (50Hz)	58.9
LWA (50Hz)	87

ENGINE SPECIFICATIONS

GENERAL CHARACTERISTICS

Description	S4S-Z2DT62SD
Motor model	MITSUBISHI
Cylinder arrangement	L
Number of cylinders	4
Bore (mm)	94
Stroke (mm)	120
Displacement (C.I.)	3.33
Compression ratio	19 : 1
Speed (RPM)	1500
Pistons speed (m/s)	6
Maximum stand-by power at rated	38.2
Governor type	Mechanical
Frequency regulation (%)	< 6.5%
BMEP (bar)	8.84

COOLING SYSTEM

Radiator & Engine capacity (L)	9.5
Max water temperature (°C)	100
Outlet water temperature (°C)	93
Fan power (kW)	0.7
Fan air flow w/o restriction (m3/s)	1.1
Available restriction on air flow (mm)	10
Type of coolant	Gencool
Thermostat (°C)	76.5-90

EMISSIONS

Emission HC (g/kW.h)	<1.3
Emission Nox (g/kW.h)	<7.0
Emission CO (g/kW.h)	<5.0
Emissions PM (g/kW.h)	<0.4

EXHAUST

Exhaust gas flow (L/s)	130
Exhaust gas temperature (°C)	580
Max. exhaust back pressure (mm CE)	680

FUEL

Consumption @ 110% load (L/h)	11.6
Consumption @ 100% load (L/h)	10.2
Consumption @ 75% load (L/h)	7.7
Consumption @ 50% load (L/h)	5.3
Maximum fuel pump flow (L/hr)	36

OIL SYSTEM

Oil capacity (L)	10
Min. oil pressure (bar)	1
Max. oil pressure (bar)	5
Oil consumption 100% load (L/h)	0.13
Carter oil capacity (L)	9

HEAT BALANCE

Heat rejection to exhaust (kW)	41
Radiated heat to ambient (kW)	6.4
Heat rejection to coolant (kW)	33.6

AIR INTAKE

Intake air flow (L/s)	48
Max. intake restriction (mm CE)	250

ALTERNATOR

GENERAL CHARACTERISTICS

Description	LSA 43.2 S15
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	< 2%
#Taux d'harmonique en charge	< 2%
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)	0.27

OTHER CHARACTERISTICS

No load excitation current (io) (A)	1
Full load excitation current (ic) (A)	3
Full load excitation voltage (uc) (V)	13
Recovery time (Delta U = 20%)	500
Motor start (Delta U = 20% perm. or	135
Transient dip (4/4 charge) - PF : 0,8	12.3
No load losses (W)	980
Heat rejection (W)	4120

REACTANCES (R) - TIME CONSTANT(CT)

Short circuit ratio (Kcc)	0.48
Direct axis synchro reactance	255
Quadra axis synchro reactance	153
Open circuit time constant (T'do)	1131
Direct axis transient reactance	11.2
Short circuit transient time constant	50
Direct axis subtransient reactance	5.6
Subtransient time constant (T"d) (ms)	5
Quadra axis subtransient reactance	7
Zero sequence reactance unsaturated	0.8
Negative sequence reactance	6.3
Armature time constant (Ta) (ms)	8

POWERS

Power factor (Cos Phi)	0.8
Continuous Nominal Rating 40°C	40
Standby Nominal Rating 40°C (kVA)	44
Standby Rating 27°C (kVA)	47
Efficiencies 4/4 load (%)	88.5

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.