



Version Full Rental Power

BASE

- Connection terminal box rental type
- 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
- Inlet air preheating
- Primary filter
- Adjustable earth fault protection and earthing rod
- Battery isolating switch
- Voltage adjustment potentiometer



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.

R220C2 (CE)

Motor type	TAD733GE
Alternator type	LSA462M5-AR
Canopy Type	M226

GENERAL CHARACTERISTICS

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

DIMENSIONS

Length (mm)	3560
Width (mm)	1200
Height (mm)	2182
Dry weight (kg)	2960
Tank capacity (L)	868
Autonomy @ 50% of load (h)	36.6
Autonomy @ 75% of load (h)	24.7

DIMENSIONS BASE VERSION

Length (mm)	3508
Width (mm)	1200
Height (mm)	1830
Dry weight (kg)	2540
Tank capacity (L)	340
Autonomy @ 50% of load (h)	16
Autonomy @ 75% of load (h)	10.7

NOISE LEVEL

dB(A)@1m (50Hz)	78.5
dB(A)@7m (50Hz)	68.5
dB(A)@15m (50Hz)	64.5
LWA (50Hz)	96

ENGINE SPECIFICATIONS

GENERAL CHARACTERISTICS

Description	TAD733GE
Motor model	VOLVO
Cylinder arrangement	L
Number of cylinders	6
Bore (mm)	108
Stroke (mm)	130
Displacement (C.I.)	7.15
Compression ratio	18.1 : 1
Speed (RPM)	1500
Pistons speed (m/s)	6.5
Maximum stand-by power at rated	197
Governor type	Electronic
Frequency regulation (%)	+/- 0.5%
BMEP (bar)	20.04

COOLING SYSTEM

Radiator & Engine capacity (L)	35.8
Max water temperature (°C)	105
Outlet water temperature (°C)	102
Fan power (kW)	4.4
Fan air flow w/o restriction (m3/s)	5.5
Available restriction on air flow (mm)	20
Type of coolant	Glycol-Ethylene
Thermostat (°C)	87-102

EMISSIONS

Emission HC (g/kW.h)	0.323
Emission Nox (g/kW.h)	5.813
Emission CO (g/kW.h)	0.504
Emissions PM (g/kW.h)	0.064

EXHAUST

Exhaust gas flow (L/s)	565
Exhaust gas temperature (°C)	540
Max. exhaust back pressure (mm CE)	1000

FUEL

Consumption @ 110% load (L/h)	47.6
Consumption @ 100% load (L/h)	42.7
Consumption @ 75% load (L/h)	31.7
Consumption @ 50% load (L/h)	21.3
Maximum fuel pump flow (L/hr)	360

OIL SYSTEM

Oil capacity (L)	34
Min. oil pressure (bar)	2
Max. oil pressure (bar)	4
Oil consumption 100% load (L/h)	0.08
Carter oil capacity (L)	31

HEAT BALANCE

Heat rejection to exhaust (kW)	143
Radiated heat to ambient (kW)	13
Heat rejection to coolant (kW)	91

AIR INTAKE

Intake air flow (L/s)	211
Max. intake restriction (mm CE)	250

ALTERNATOR

GENERAL CHARACTERISTICS

Description	LSA 46.2 M5
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	R448
Sustained short circuit current	3 IN" 10s
#Taux d'harmonique à vide TGH/THC	< 2.5%
#Taux d'harmonique en charge	< 2.5%
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)	0.43

OTHER CHARACTERISTICS

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%)	500
Motor start (Delta U = 20% perm. or	434
Transient dip (4/4 charge) - PF : 0,8	13.7
No load losses (W)	3040
Heat rejection (W)	13180

REACTANCES (R) - TIME CONSTANT(CT)

Short circuit ratio (Kcc)	0.45
Direct axis synchro reactance	301
Quadra axis synchro reactance	180
Open circuit time constant (T'do)	2042
Direct axis transient reactance	14.7
Short circuit transient time constant	100
Direct axis subtransient reactance	8.8
Subtransient time constant (T"d) (ms)	10
Quadra axis subtransient reactance	10.9
Zero sequence reactance unsaturated	0.8
Negative sequence reactance	9.9
Armature time constant (Ta) (ms)	15

POWERS

Power factor (Cos Phi)	0.8
Continuous Nominal Rating 40°C	200
Standby Nominal Rating 40°C (kVA)	214
Standby Rating 27°C (kVA)	223
Efficiencies 4/4 load (%)	92.3

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.