



Version Full Rental Power

BASE

- Analog engine
- Connection terminal box rental type
- Four-pole circuit breaker
- 2 points lifting ring with integrated ladder
- soundproofed enclosure dedicated to rental
- Fuel low level
- AREP Leroy-Somer alternator
- Swing valve
- Super silent enclosure dedicated to rental

ADDITIONAL EQUIPMENT - FULL

- Containment fuel tank and large autonomy
- Inlet air preheating
- 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.

R275C2 (CE)

Motor type	TAD734GE
Alternator type	LSA462L6-AR
Canopy Type	M227

GENERAL CHARACTERISTICS

Frequency (Hz)	50
Reference voltage (V)	400/230
Max power (kVA)	275
Max power ESP (kWe)	220
Max power ESP (kVA)	250
Max power PRP (kWe)	200
Intensity (A)	397
Standard Control Panel	TELYS
Optional control panel	KERYS Rental

DIMENSIONS

Length (mm)	4056
Width (mm)	1380
Height (mm)	2437
Dry weight (kg)	3850
Tank capacity (L)	950
Autonomy @ 50% of load (h)	28.1
Autonomy @ 75% of load (h)	20.1

DIMENSIONS BASE VERSION

Length (mm)	4004
Width (mm)	1380
Height (mm)	2360
Dry weight (kg)	3130
Tank capacity (L)	390
Autonomy @ 50% of load (h)	12.8
Autonomy @ 75% of load (h)	9.2

NOISE LEVEL

dB(A)@1m (50Hz)	77.8
dB(A)@7m (50Hz)	67.8
dB(A)@15m (50Hz)	63.8
LWA (50Hz)	96

ENGINE SPECIFICATIONS

GENERAL CHARACTERISTICS

Description	TAD734GE
Motor model	VOLVO
Cylinder arrangement	L
Number of cylinders	6
Bore (mm)	108
Stroke (mm)	130
Displacement (C.I.)	7.15
Compression ratio	17.1 : 1
Speed (RPM)	1500
Pistons speed (m/s)	6.5
Maximum stand-by power at rated	241
Governor type	Electronic
Frequency regulation (%)	+/- 0.5%
BMEP (bar)	24.18

COOLING SYSTEM

Max water temperature (°C)	103
Outlet water temperature (°C)	93
Fan power (kW)	9.2
Fan air flow w/o restriction (m3/s)	4.8
Available restriction on air flow (mm)	20
Type of coolant	Glycol-Ethylene
Thermostat (°C)	83-95

EMISSIONS

Emission HC (g/kW.h)	0.079
Emission Nox (g/kW.h)	5.014
Emission CO (g/kW.h)	0.350
Emissions PM (g/kW.h)	0.049

EXHAUST

Exhaust gas flow (L/s)	557
Exhaust gas temperature (°C)	550
Max. exhaust back pressure (mm CE)	750

FUEL

Consumption @ 110% load (L/h)	59.6
Consumption @ 100% load (L/h)	53.4
Consumption @ 75% load (L/h)	42.6
Consumption @ 50% load (L/h)	30.5
Maximum fuel pump flow (L/hr)	300

OIL SYSTEM

Oil capacity (L)	29
Min. oil pressure (bar)	1
Max. oil pressure (bar)	4.5
Oil consumption 100% load (L/h)	0.01
Carter oil capacity (L)	24

HEAT BALANCE

Heat rejection to exhaust (kW)	177
Radiated heat to ambient (kW)	26
Haet rejection to coolant (kW)	129

AIR INTAKE

Intake air flow (L/s)	272
Max. intake restriction (mm CE)	300

ALTERNATOR

GENERAL CHARACTERISTICS

Description	LSA 46.2 L6
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)	4
Full load excitation voltage (uc) (V)	34
Recovery time (Delta U = 20%)	500
Motor start (Delta U = 20% perm. or	504
Transient dip (4/4 charge) - PF : 0,8	14.1
No load losses (W)	3690
Heat rejection (W)	16400

REACTANCES (R) - TIME CONSTANT(CT)

Short circuit ratio (Kcc)	0.41
Direct axis synchro reactance	327
Quadra axis synchro reactance	196
Open circuit time constant (T'do)	2105
Direct axis transient reactance	15.5
Short circuit transient time constant	100
Direct axis subtransient reactance	9.3
Subtransient time constant (T"d) (ms)	10
Quadra axis subtransient reactance	11.5
Zero sequence reactance unsaturated	0.7
Negative sequence reactance	10.4
Armature time constant (Ta) (ms)	15

POWERS

Power factor (Cos Phi)	0.8
Continuous Nominal Rating 40°C	250
Standby Nominal Rating 40°C (kVA)	260
Standby Rating 27°C (kVA)	275
Efficiencies 4/4 load (%)	92.4

CONTROL PANELS

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.

KERYS (coupling and adaptability)



The KERYS control unit has been designed to fulfil the specific requirements of professionals in terms of operating and monitoring generating sets. It therefore offers a wide range of functions.

This control unit is fitted as standard to all generating sets designed to be used for coupling and is offered as an option across the rest of our range.

The KERYS can be built into the central console, fitted directly on the generating set, or in a separate cabinet, to fulfil all the requirements for low and high output power plants.

The KERYS offers the following functions:

Coupling: pre-programmed coupling mode selector.

Electrical measurements: voltmeter, frequency meter, ammeter.

Engine parameters: working hours counter, oil pressure, coolant temperature, fuel level, engine speed, battery voltage.