# FB23-LP (Open) / FC23-LP (Silent)





# Power On

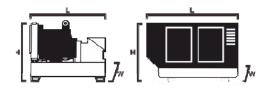
Engine	Alternate		Alternator	r Powered b		red by
Lister Petter SA	Lister Petter SA427G1 Leroy		-somer TAL-A40-G		Lister Petter	
Frequency	Ph	ase	F	Power Factor		Emissions
50Hz/1500rpm	3-Pi	nase	Fac	etor Cos $\Phi = 0.8$		Stage II
RATINGS	Prime (PF		Standby (ES	/ Power SP)	Rated Current (Amps)	Fuel Consumption @100% Load
Voltage (V)	kWe	kVA	kWe	kVA	(A)	L/h
380/220	18	23	20	25	34.2	5.8
400/230	18	22.5	20	25	32.5	5.8
415/240	18	23	20	25	31.3	5.8
					KEV FEATUR	=9







- -Lister Petter High efficient water cooled diesel engine.
- -Single bearing Leroy brushless alternators (Class H, with AVR).
- Radiator with pressure cap and drain point.
- -Fully guarded engine-driven fan.
- -Fully welded steel skid base with lifting holes and fork lift legs.
- -Integral fuel tank with filler cap and gauge (≤650kVA).
- -Heavy duty rubber anti-vibration mountings.
- -12V or 24V maintenance free starter battery and connecting cables.
- -Separate engine-driven battery charging alternator.
- -Spin on oil and fuel filters and dry type air filter element.
- -Industrial silencer (15dBA reduction) supplied loose.
- -Auto start control system with LCD show.
- -Battery charger provided.
- -Main line 3P circuit breaker.
- -Rigorous factory test wiring with IEC standard.
- -Operation & Maintenance manual & Wiring diagrams.
- -Wide range of optional extra features available.



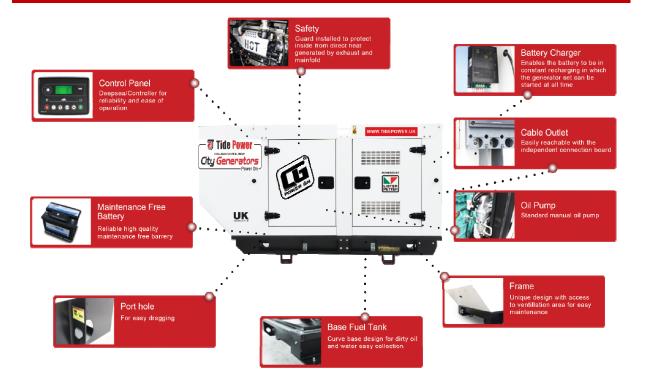
DIMWNSIONS & WEIGHTS	OPEN	SILENT
Length (L)-mm	1566	2252
Width (W)-mm	630	980
Height (H)-mm	989	1220
Dry Weight-kg:	565	930
Standard Fuel Tank Capacity(H)	90	90
(dBA)@7m no load	≤85	≤68

Three phase generators rated at 0.8 power factor. All single-phase generators rated at 0.8 or 1.0 power factor.

(1)PRP (Prime Power): Available continuously at variable load in lieu of commercially purchased power for an unlimited number of hours per year accordance with ISO8528-1, and an overload of 10% permitted for one hour in every twelve hours of operation in accordance with ISO 3046-1.

(2)ESP (Standby Power): Emergency Standby Power in variable load applications in accordance with ISO8528-1 in the event of a utility power failure.

### **FENOVA SERIES**



Sound attenuated canopy to incorporate the following standard features.

Acoustic sound attenuated canopy to nominally 74dB(A)@7m super silent and custom-built units are available on request to meet a very wide range of custom requirements.

- •Lube oil and coolant drains piped to the exterior of the canopy.
- ·Service access doors on each side of canopy.
- ·Heavy lift and forklift provisions.
- •Exhaust outlet on top of the canopy.
- •Cable entry provisions.
- •The canopy constructed from galvanised 2mm sheet metal and painted in polyester powder coating.
- •Twist type "whale Tail" door lock with padlock ability
- •Emergency stop button.

# **ADVANTAGES OF FENOVA**

- -Covers a wide KVA/KW range
- -galvanised sheet steel canopy with laser cut areas treated before powder coating
- -Compact Structure
- -weather proof enclosure
- -Noise Level 74dBA@7m
- -Ambient temperature : -5°C--50°C
- -Australian design input to build quality from over 35 years' experience in manufacturing
- -2 year or 2000hrs warranty (extended warranties on request)
- -Easy Operation and Maintenance with manuals provided



ENGINE	List	ter Petter SA423G1			
General Performance	Engine Frequency and Speed	Hz / r/min	50 / 1500	50 / 1500	
	Engine Power	kWm	22	24	
	Type of fuel injection		Direct		
	Number of cylinders		4		
	Aspiration		Natural		
LIOTED	Nominal cylinder bore×Stoke	mm	90×105		
LISTER	Total cylinder capacity	Litre	2.67		
PETTER	Compression ratio		18.5:1		
	Speed governor		Electronic		
	Fly wheel housing		SAE 4		
	Fuel Consumption at 110% Prime Power	L/h	6.74		
	Fuel Consumption at 100% Prime Power	L/h	5.8		
Fuel System	Fuel Consumption at 75% Prime Power	L/h	4.24		
	Fuel Consumption at 50% Prime Power	L/h	3.0		
	Fuel Consumption at 25% Prime Power	L/h	2.1		
	Maximum allowable back-pressure	kPa	≤10		
	Exhaust gas flow	m <sup>3</sup> /min	3.7		
	Exhaust gas temperature, continuous	°C	328		
Exhaust and Intake System	Exhaust gas temperature, overload	°C	380		
IIIIake System	Exhaust pipe diameter - recommended	mm	63.5		
	Maximum allowable inlet restriction	kPa	≤ 4		
	Combustion air flow	m <sup>3</sup> /min	1.5		
	Total system with radiator capacity	Litres	9.8		
	Total system without radiator capacity	Litres	4.1		
	Thermostat type		Wax Capsule		
0 15 0 1	Cooling package maximum operating temper	erature °C	≤110		
Cooling System	Thermostat opens	°C	82 ± 2		
	Thermostat fully open	°C	≤ 95		
	Minimum temperature to engine	°C	-25		
	Cooling fan flow rate	m³/s	37.5		
Lubrication System	Sump capacity including filter	Litres	8		
	Oil consumption, 100% (I/hr)	L/hr	0.01		
	Lubricating oil temperature	°C	90-105		
	Maximum oil temperature	°C	108		
Electric System	Electrical System Voltage	V	12		
	Starter motor		12V×3.0kW		
	Battery		AGM		
	1				

ALTERNATOR	•	50Hz/1500rpm		
	Manufacture / Brand	Leroy-somer		
	Model	TAL-A40-G		
	Coupling / No. of Bearings	Direct / Single Bearing		
LEROY® SOMER	Phase / Poles	3-Phase / 4-Pole		
	Power Factor	Cos Φ = 0.8		
	AVR Regulation	Yes		
	Voltage Regulation	±1 %		
	Insulation Class	Н		
	Drip Proof	IP23		
	Voltage Regulator	AVR		
	Altitude	≤1000 m		
		BOWER ON POWER ON		

# **CONTROLLER**



## **Deep Sea Electronics**





The DSE7410 is an Auto Start Control Module and the DSE7420 is an Auto Mains (Utility) Failure Control Module suitable for a wide variety of single, diesel or gas, gen-set applications. A sophisticated module monitoring an extensive number of engine parameters, the DSE74xx will annunciate warnings, shutdown and engine status information on the back-lit LCD screen, illuminated LED, remote PC, audible alarm and via SMS text alerts once commected to the DSE890Mk11 remote monitorign (additional cost).

The module includes RS232, RS485 & Ethernet ports as well as dedicated terminals for system expansion. The DSE7400 Series modules are compatible with electronic (CAN) and non-electronic (magnetic pick up/alternator sensing) engines and offer a comprehensive number of flexible inputs, outputs and extensive engine protections so the system can be easily adapted to meet the most demanding industry requirements. The modules can be easily configured using the DSE Configuration Suite Software. Selected front panel editing is also available. Generator sets built with world wide leading brands

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# Peace of Mind and reliability

City Generators partner with world wide leadign brands to ensure peace of mind









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