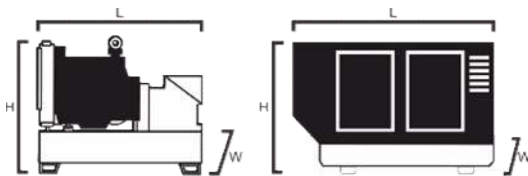


FB700X-LP2(Open)&FC700X-LP3(Silent)

Engine		Alternator		Powered by	
Lister Petter LP625SG3		Leroy Somer TAL-A473-F		Lister Petter	
Frequency	Phase	Power Factor		Emissions	
60Hz/1800rpm	3-Phase	Factor Cos $\Phi = 0.8$		stage III	
RATINGS	Prime Power (PRP)		Standby Power (ESP)		Fuel Consumption @100% Load
Voltage (V)	kWe	kVA	kWe	kVA	L/h
380/220	560	700	612	765	149,90
440/254	560	700	612	765	149,90
220/127	560	700	612	765	149,90



KEY FEATURES

- High efficient water cooled diesel engine.
- Single bearing with 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 ($\leq 650\text{kVA}$).
- 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.

DIMENSIONS & WEIGHTS

	OPEN	SILENT
Length (L)-mm	4800	5383
Width (W)-mm	2100	2150
Height (H)-mm	2300	2480
Dry Weight-kg:	6113	7210
Standard Fuel Tank Capacity(L)	1195	1195
(dBA)@7m no load	N/A	≤ 80

Ratings:

All three phase generator sets are rated at 0.8 power factor. All single-phase generator sets are 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.

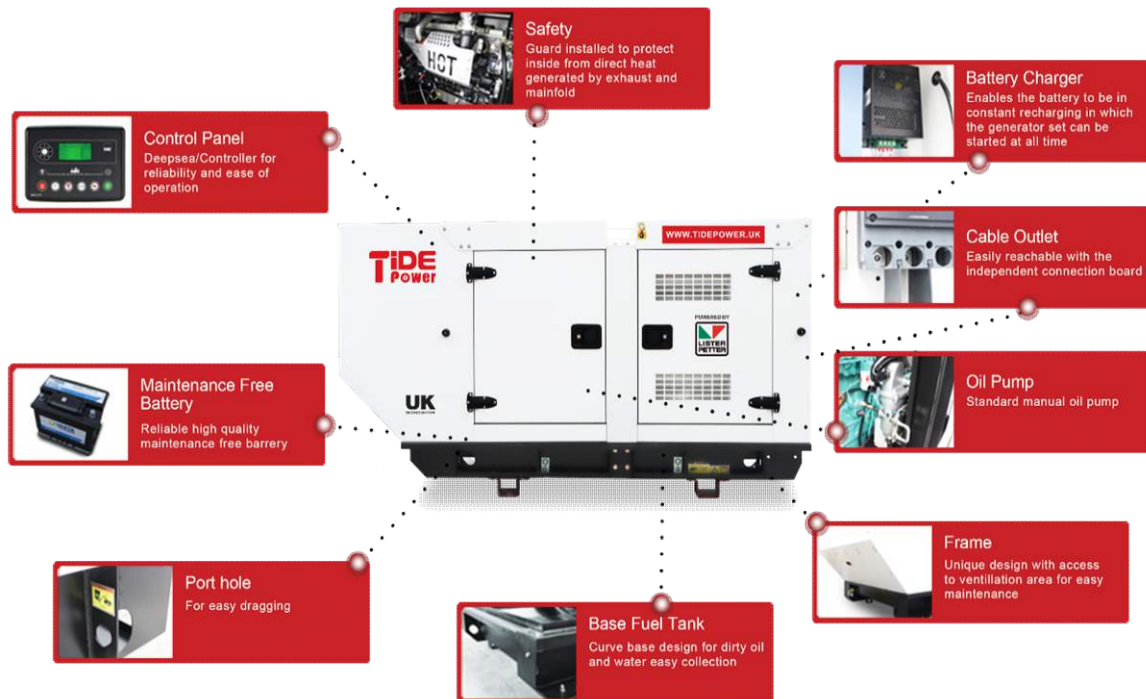
(2)ESP (Standby Power):

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

(3)STD:Standard Alternator.

Tide Power reserves the right to change the design or specifications without notice and without any obligation or liability.


FENOVA PLUS SERIES




The soundproof Generating set range offers a very large application target with powers ranging from 5-650KVA at 50 and 60Hz. The new and sturdy design whether it is canopies or containerized enclosure are with maximum noise reduction which make it suitable for all construction sites and home backup power supply, both mobile and stationary. At all time we have kept in our inventory a largerange of accessories to answer any immediate need, for sales or after sales services. Our standard Deepsea control panel with its stand alone cabinet is equipped with a large display screen, emergency button, ignition barrel and circuit breaker. Like every of our finished products, all the parts of the unit are subject to a stringent operating test involving over 30 checks prior to delivery.

ADVANTAGES OF FENOVA PLUS

- Powerful Engine, Large Output Power;
- Stable Performance
- Compact Structure
- Waterproof and Dustproof and weatherproof
- Noise Level 60—80 dBA@7m
- Ambient temperature : -5°C--50°C
- Excellent design and craftsmanship
- Excellent Cooling System
- Automatic Air—Bleeding
- Easy Operation and Maintenance;

ENGINE		Lister Petter LP625SG3		
General Performance	Engine Frequency and Speed	Hz / r/min	60 / 1800	
	Engine Power	kWm	622	684
	Type of fuel injection	Direct		
	Number of cylinders	6 cyl / In-line / 4-stroke		
	Aspiration	Turbocharged and air-to-air intercooled		
	Nominal cylinder bore×Stoke	mm	170/185	
	Total cylinder capacity	Litre	25,18	
	Compression ratio	14.5:1		
	Speed governor	ECU		
	Fly wheel housing	SAE 0		
Fuel System	Fuel Consumption at 110% Prime Power	L/h	165,60	
	Fuel Consumption at 100% Prime Power	L/h	149,90	
	Fuel Consumption at 75% Prime Power	L/h	113,80	
	Fuel Consumption at 50% Prime Power	L/h	81,30	
	Fuel Consumption at 25% Prime Power	L/h	47,40	
Exhaust and Intake System	Maximum allowable back-pressure	kPa	≤ 10	
	Exhaust gas flow	m³/min	171,0	
	Exhaust gas temperature, continuous	°C	450	
	Exhaust gas temperature, overload	°C	500	
	Exhaust pipe diameter - recommended	mm	152,0	
	Maximum allowable inlet restriction	kPa	≤6	
	Combustion air flow	m³/min	67,0	
Cooling System	Total system with radiator capacity	Litres	140,00	
	Total system without radiator capacity	Litres	55,0	
	Thermostat type	Wax Capsule		
	Cooling package maximum operating temperature	°C	≤99	
	Thermostat opens	°C	77	
	Thermostat fully open	°C	≤ 90	
	Minimum temperature to engine	°C	-25	
	Cooling fan flow rate	m3/s	10.8	
Lubrication System	Sump capacity including filter	Litres	75,0	
	Oil consumption, 100% (l/hr)	L/hr	0,060	
	Lubricating oil temperature	°C	90-105	
	Maximum oil temperature	°C	108	
Electric System	Electrical System Voltage	V	24	
	Starter motor	24V×9kW		
	Battery	Maintenance-free		

ALTERNATOR		60Hz/1800rpm		
General Data	Manufacture / Brand	Leroy-somer		
	Model	TAL-A473-F		
	Coupling / No. of Bearings	Direct / Single Bearing		
	Phase / Poles	3-Phase / 4-Pole		
	Power Factor	Cos Φ = 0.8		
	AVR Regulation	Yes		
	Voltage Regulation	±1 %		
	Insulation Class	H		
	Drip Proof	IP23		
	Excitation system	SHUNT		
	Altitude	≤1000 m		

CONTROLLER

Tide Power Easycon Function Summary

Controller Model / DeepSea

Controller Photos

DSE4520



DSE6120



DSE7320



DSE8610



Standard Supply

○

●

○

○

Viewable Parameters

Phase Voltage	3	3	3	3
Current	●	●	●	●
Frequency	●	●	●	●
Active Power	●	●	●	●
Reactive Power	●	●	●	●
Apparent Power	●	●	●	●
Power Factor	●	●	●	●
Electric Energy Metering	●	●	●	●

Generator Protection

Abnormal Voltage	●	●	●	●
Over-current Warning	●	●	●	●
Over current Protection	●	●	●	●
Over Frequency Protection	●	●	●	●
Short Circuit Protection	MCCB / ●	MCCB / ●	MCCB / ●	MCCB / ●

Engine Figure

Oil Pressure	●	●	●	●
Water Temperature	●	●	●	●
Fuel Meter / Fuel Sensor	●/○	●/○	●/○	●/○
Speed	●	●	●	●
Battery Voltage	●	●	●	●
Elapsed Time	●	●	●	●

Engine Protection

Low Oil Pressure Warning	●	●	●	●
Low Oil Pressure Protection	●	●	●	●
High Temperature Warning	●	●	●	●
High Temperature Protection	●	●	●	●
Overspeed Warning	●	●	●	●
Overspeed Protection	●	●	●	●
Alternator Charger	●	●	●	●

Functions

Remote Start	●	●	●	●
AMF (Auto Main Failure)	●	●	●	●
Programmable Input	●	●	●	●
Programmable Output	●	●	●	●
Expand Module	○	○	○	○
Communication Function	○	○	●/ RS232 / 485	●/ RS232 / 485
Communication Port	USB	USB	●/ RS232 / 485	●/ RS232 / 485
CAN	●	●	●	●
Service Indicate	●	●	●	●
Fault History	●	●	●	●
Gen-Gen Synchronising	x	x	x	●
Gen-Mains Synchronising	x	x	x	●

Remark:

● Standard Supply

○ Available as Optional

x Not Available