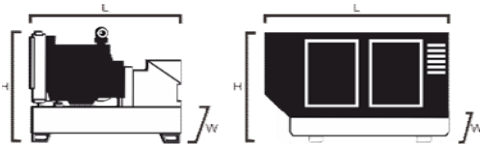


FB150X-LP(Open)&FC150X-LP(Silent)

Engine		Alternator		Powered by	
Lister Petter LP665G1		Leroy Somer TAL-A44-K		Lister Petter	
Frequency	Phase	Power Factor		Emissions	
60Hz/1800rpm	3-Phase	Factor Cos $\Phi = 0.8$		stage II	
RATINGS	Prime Power (PRP)		Standby Power (ESP)		Fuel Consumption @100% Load
Voltage (V)	kWe	kVA	kWe	kVA	(A)
380/220	120	150	132	165	227.9
440/254	120	150	132	165	196.8
220/127	120	150	132	165	393.7
					L/h
					33.10
					33.10
					33.10



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	3100	3502
Width (W)-mm	1100	1150
Height (H)-mm	1616	1882
Dry Weight-kg:	1525	2070
Standard Fuel Tank Capacity(L)	495	495
(dBA)@7m no load	N/A	≤ 65

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.

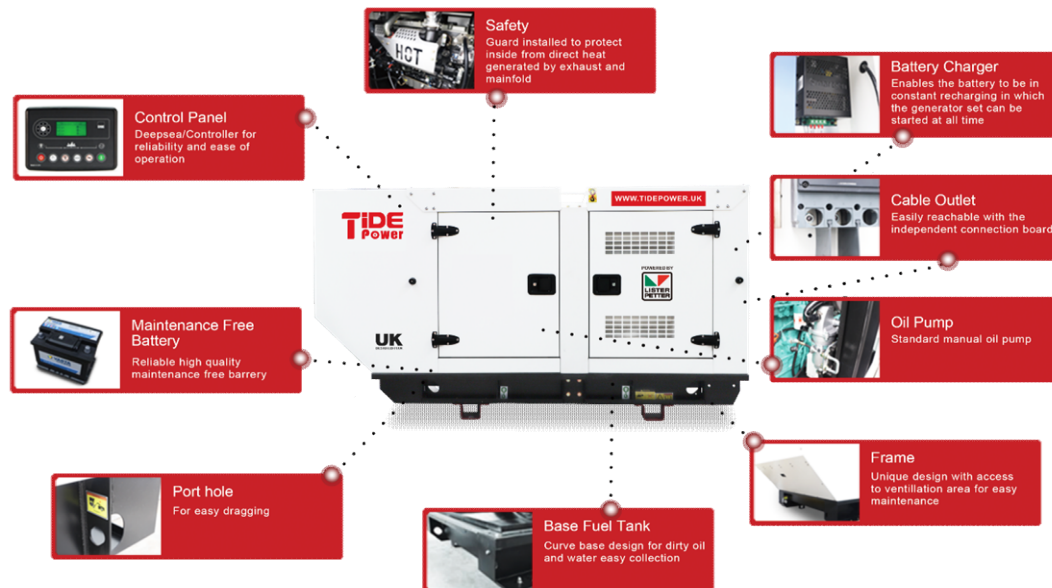
(2)ESP (Standby Power):

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 --50
- Excellent design and craftsmanship
- Excellent Cooling System
- Automatic Air—Bleeding
- Easy Operation and Maintenance;

ENGINE		Lister Petter LP665G1	
General Performance	Engine Frequency and Speed	Hz / r/min	60 / 1800
	Engine Power	kWm	136 150
	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	105/124
	Total cylinder capacity	Litre	6.5
	Compression ratio	16:1	
	Speed governor	Electronic	
Fuel System	Fly wheel housing	SAE 3	
	Fuel Consumption at 110% Prime Power	L/h	36.70
	Fuel Consumption at 100% Prime Power	L/h	33.10
	Fuel Consumption at 75% Prime Power	L/h	25.20
	Fuel Consumption at 50% Prime Power	L/h	17.90
Exhaust and Intake System	Fuel Consumption at 25% Prime Power	L/h	10.70
	Maximum allowable back-pressure	kPa	≤10
	Exhaust gas flow	m ³ /min	28.9
	Exhaust gas temperature, continuous	°C	550
	Exhaust gas temperature, overload	°C	600
	Exhaust pipe diameter - recommended	mm	100.0
	Maximum allowable inlet restriction	kPa	≤ 6
Cooling System	Combustion air flow	m ³ /min	12.3
	Total system with radiator capacity	Litres	42.00
	Total system without radiator capacity	Litres	15.0
	Thermostat type	Wax Capsule	
	Cooling package maximum operating temperature	°C	≤104
	Thermostat opens	°C	82
	Thermostat fully open	°C	≤ 95
Lubrication System	Minimum temperature to engine	°C	-25
	Cooling fan flow rate	m ³ /s	4
	Sump capacity including filter	Litres	17.5
	Oil consumption, 100% (l/hr)	L/hr	0.060
Electric System	Lubricating oil temperature	°C	90-105
	Maximum oil temperature	°C	108
	Electrical System Voltage	V	24
	Starter motor	24V×6kW	
	Battery	Maintenance-free	

ALTERNATOR		60Hz/1800rpm	
General Data	Manufacture / Brand	Leroy-somer	
	Model	TAL-A44-K	
	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

	DSE4520	DSE6120	DSE7320	DSE8610
Controller Photos				
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 × Not Available