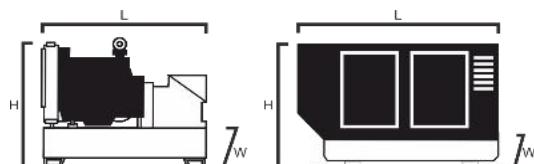


FB12X-SA(Open)&FC12X-SA(Silent)

Engine		Alternator		Powered by	
Lister Petter SA315G2		Leroy Somer TAL-A40-C		Lister Petter	
Frequency	Phase	Power Factor		Emissions	
60Hz/1800rpm	3-Phase	Factor Cos Φ = 0.8		stage II	
RATINGS	Prime Power (PRP)		Standby Power (ESP)	Rated Current (Amps)	Fuel Consumption @100% Load
Voltage (V)	kWe	kVA	kWe	kVA	(A)
380/220	9.6	12	11	13	18.2
440/254	9.6	12	11	13	15.7
220/127	9.6	12	11	13	31.5
					3.20



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 (≤ 650 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.

DIMWNSIONS & WEIGHTS	OPEN	SILENT
Length (L)-mm	1650	1903
Width (W)-mm	830	880
Height (H)-mm	980	1130
Dry Weight-kg:	520	734
Standard Fuel Tank Capacity(L)	109	109
(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.

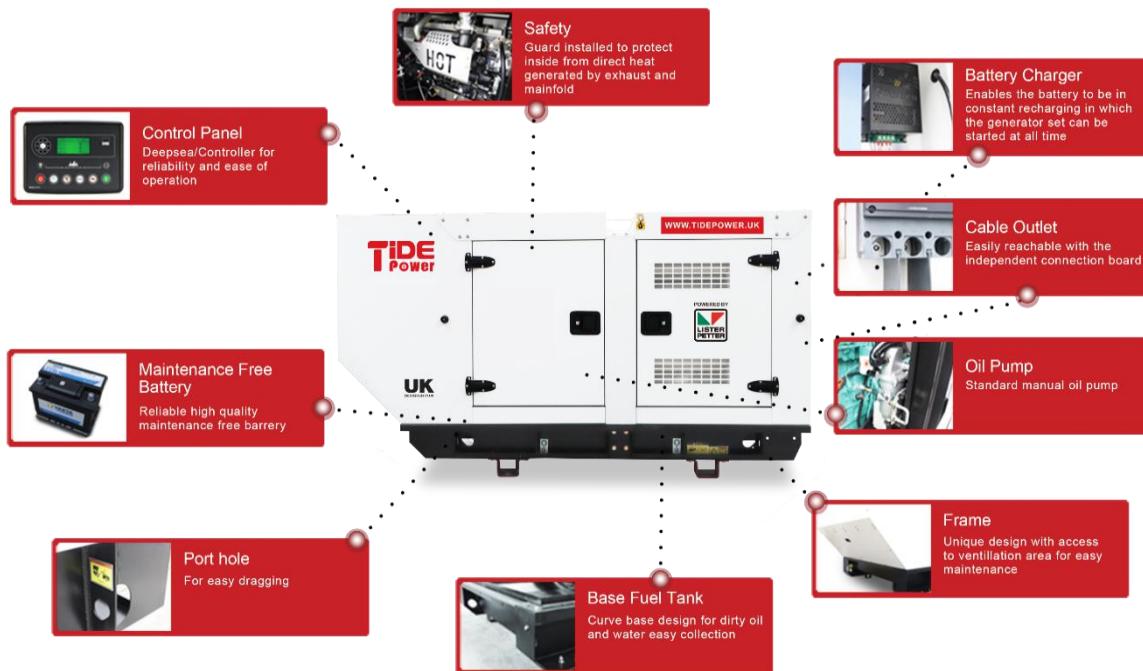
(2)ESP (Standby Power):

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

ENGINE		Lister Petter SA315G2		
General Performance	Engine Frequency and Speed	Hz / r/min	60 / 1800	
	Engine Power	kWm	12	13.2
	Type of fuel injection		Direct	
	Number of cylinders		3 cyl / In-line / 4-stroke	
	Aspiration		Naturally	
	Nominal cylinder bore×Stroke	mm	85/90	
	Total cylinder capacity	Litre	1.5	
	Compression ratio		18.5:1	
	Speed governor		Electronic	
Fuel System	Fly wheel housing		SAE 4	
	Fuel Consumption at 110% Prime Power	L/h	3.60	
	Fuel Consumption at 100% Prime Power	L/h	3.20	
	Fuel Consumption at 75% Prime Power	L/h	2.50	
	Fuel Consumption at 50% Prime Power	L/h	1.80	
Exhaust and Intake System	Fuel Consumption at 25% Prime Power	L/h	1.30	
	Maximum allowable back-pressure	kPa	≤5	
	Exhaust gas flow	m³/min	1.2	
	Exhaust gas temperature, continuous	°C	550	
	Exhaust gas temperature, overload	°C	600	
	Exhaust pipe diameter - recommended	mm	42.0	
Cooling System	Maximum allowable inlet restriction	kPa	≤ 3.5	
	Combustion air flow	m³/min	1.0	
	Total system with radiator capacity	Litres	9.50	
	Total system without radiator capacity	Litres	3.0	
	Thermostat type		Wax Capsule	
Lubrication System	Cooling package maximum operating temperature	°C	≤90	
	Thermostat opens	°C	70	
	Thermostat fully open	°C	82	
	Minimum temperature to engine	°C	-25	
	Cooling fan flow rate	m³/s	1.2	
Electric System	Sump capacity including filter	Litres	4.8	
	Oil consumption, 100% (l/hr)	L/hr	0.006	
	Lubricating oil temperature	°C	80-100	
	Maximum oil temperature	°C	120	
Electric System	Electrical System Voltage	V	12	
	Starter motor		12V×3kW	
	Battery		Maintenance-free	

ALTERNATOR		60Hz/1800rpm	
General Data	Manufacture / Brand		Leroy-somer
	Model		TAL-A40-C
	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
Standard Supply

Viewable Parameters

Phase Voltage



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



Gen-Mains Synchronising


Remark:

● Standard Supply

○ Available as Optional

✗ Not Available