

Technical Data

Engine		Alternator			Generator Model	
Baudouin 4M06G55/6		Tide FPA22-546			EC63X-B (Silent)	
Frequency	Phase		Power Factor		Emissions	
60Hz/1800rpm	3-Phase		Factor Cos Φ = 0.8		N/A	
RATINGS	Prime Power		Standby Power		Rated Current	Fuel Consumption @100% Load
	(PRP)		(ESP)		Amps	
Voltage (V)	kWe	kVA	kWe	kVA	(A)	L/h
380/220	50	63	55	69	95.7	14.4
440/254	50	63	55	69	82.7	14.4
220/127	50	63	55	69	165.3	14.4
230/132	50	63	55	69	158.1	14.4

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:	N/A	N/A
Width (W)-mm:	N/A	N/A
Height (H)-mm:	N/A	N/A
Dry Weight-kg:	N/A	N/A
Fuel tank (H)	8	8
(dBA)@7m no load	N/A	N/A

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.

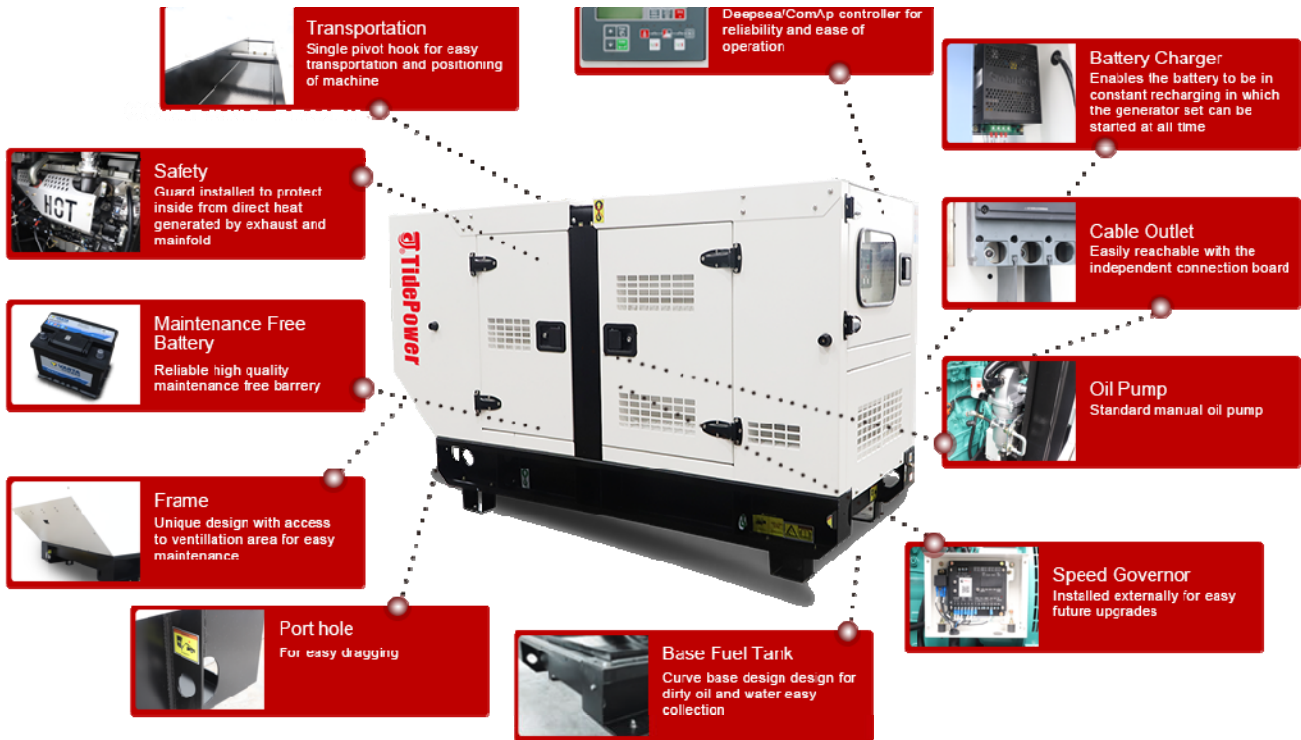
(2)ESP (Standby Power):

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 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 ComAp 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:

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

Engine	Baudouin 4M06G55/6		
General Performance	Frequency	Hz	60
	Engine Speed	r/min	1800
	Cylinders / Cylinders Arrangement / Cycle	4 cyl / In-line	
	Thermodynamic Cycle	Diesel 4 stroke	
	Aspiration	Turbocharged and Aftercooled	
	Compression Ratio	17.5:1	
	Governor Type	Electronic	
	Bore / Stroke	mm	89 X 92
	Displacement	Litres	2.3
	Mean Piston Speed	m/s	5.5
	Engine Power	kWm	58 63
Fuel System	Fuel Consumption at 110% Prime Power	Litres/hour	15.8
	Fuel Consumption at 100% Prime Power	Litres/hour	14.4
	Fuel Consumption at 75% Prime Power	Litres/hour	10.7
	Fuel Consumption at 50% Prime Power	Litres/hour	7.6
	Fuel Consumption at 25% Prime Power	Litres/hour	4.3
Air Intake / Exhaust System	Air Intake Restriction Clean Filter	mBar	≤ 35
	Air Intake Restriction Dirty Filter	mBar	≤ 60
	Recommended Air Flow @ PRP / ESP	m³/min	3.8 / 3.9
	Max. Exhaust Back Pressure	mBar	75
	Max. Exhaust Temperature Before Turbocharger	°C	≤ 700
	Max. Exhaust Temperature After Turbocharger	°C	≤ 550
	Exhaust Flow @ PRP/ ESP	m³/min	12.24 / 12.48
Lubrication System	Oil capacity Low / High	Litres	6 / 7.35
	Total System Capacity (Including Filters)	Litres	9.2
	Max. Oil Temperature	°C	115
	Oil Flow	Litres/min	22
Cooling System	Coolant Capacity of Radiator and Pipes	Litres	7.9
	Coolant Capacity of the Engine	Litres	5
	Coolant Alarm (Shutdown) Temperature	°C	105
	Thermostat Opening / Full Open Temperature	°C	72 / 90
	Cooling Fan Airflow	m³/min	130
Electric System	Electrical System Voltage	V	12
	Battery	Maintenance-free	

Alternator	60Hz/1800rpm	
General Data	Manufacture / Brand	Tide
	Model	FPA22-546
	Coupling / No. of Bearings	Direct / Single Bearing
	Phase / Poles	3-Phase / 4-Pole
	Power Factor	Cos Φ = 0.8
	AVR Regulation	Yes
	Voltage Regulation	±0.5 %
	Insulation Class	H
	Drip Proof	IP23
	Voltage Regulator	AVR
	Altitude	≤ 1000 m

CONTROLLER Tide Power Easycon Function Summary

Controller Model / DeepSea
Controller Photos

DSE4520



DSE6120



DSE7320



DSE8610



Standard Supply

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Viewable Parameters

Phase Voltage

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Current

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Frequency

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Active Power

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Reactive Power

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Apparent Power

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Power Factor

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Electric Energy Metering

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Generator Protection

Abnormal Voltage

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Over-current Warning

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Over current Protection

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Over Frequency Protection

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Short Circuit Protection

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MCCB / ●

MCCB / ●

MCCB / ●

Engine Figure

Oil Pressure

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Water Temperature

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Fuel Meter / Fuel Sensor

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Speed

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Battery Voltage

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Elapsed Time

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Engine Protection

Low Oil Pressure Warning

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Low Oil Pressure Protection

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High Temperature Warning

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High Temperature Protection

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Overspeed Warning

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Overspeed Protection

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Alternator Charger

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Functions

Remote Start

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AMF (Auto Main Failure)

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Programmable Input

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Programmable Output

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Expand Module

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Communication Function

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Communication Port

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USB

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●/ RS232 / 485

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Service Indicate

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Fault History

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Gen-Gen Synchronising

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Gen-Mains Synchronising

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Remark:

● Standard Supply

○ Available as Optional

× Not Available