

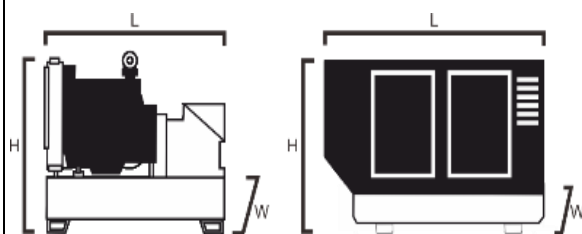
Technical Data

Engine		Alternator			Generator Model	
Lister Petter LP689G1		Leroy-somer TAL-A44-M			FB225X-LP (Open) / FC225X-LP (Silent)	
Frequency	Phase		Power Factor			Emissions
60Hz/1800rpm	3-Phase		Factor Cos Φ = 0.8			Stage II
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	180	225	198	248	341,9	50,9
440/254	180	225	198	248	295,2	50,9
220/127	180	225	198	248	590,5	50,9
230/132	180	225	198	248	564,8	50,9



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:	2605	3850
Width (W)-mm:	880	1100
Height (H)-mm:	1682	2000
Dry Weight-kg:	1764	2422
Standard Fuel Tank Capacity-H	9	9
(dBA) @7m no load	≤ 90	≤ 72

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.

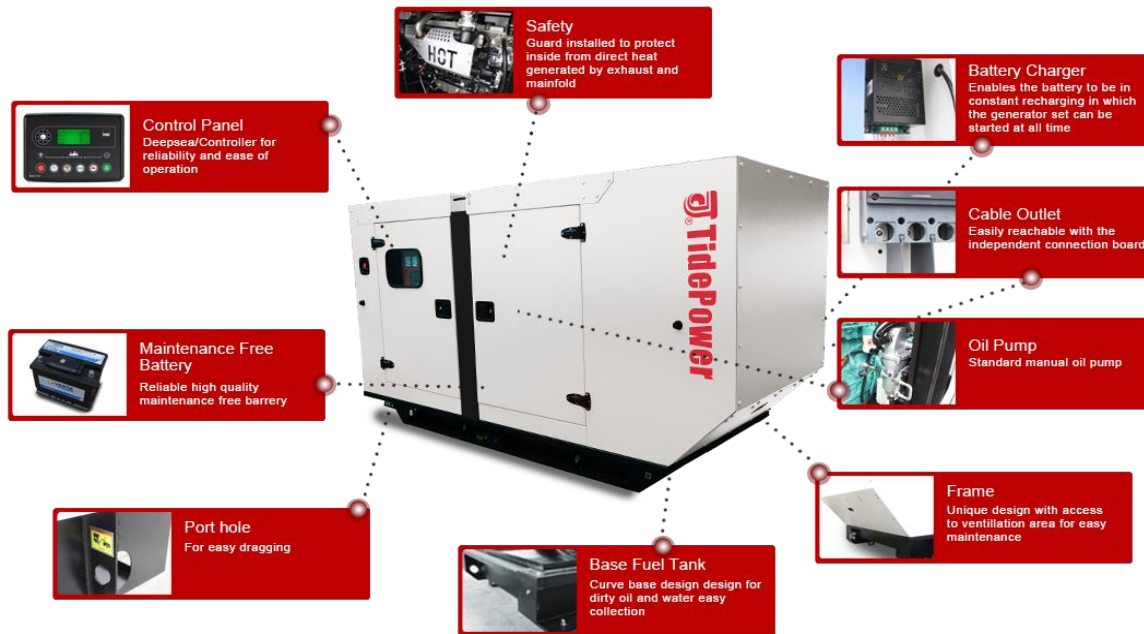
(2)ESP (Standby Power):

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 PULS 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	LP689G1		
General Performance	Engine Frequency and Speed	Hz / r/min	60 / 1800
	Engine Power	kWm	205 226
	Type of fuel injection	Direct	
	Number of cylinders	6	
	Aspiration	Turbocharged and air-to-air intercooled	
	Nominal cylinder bore×Stoke	mm	114×144
	Total cylinder capacity	Litre	8,82
	Compression ratio	18: 1	
	Speed governor	Electronic	
	Fly wheel housing	SAE 2	
Fuel System	Fuel Consumption at 110% Prime Power	L/h	57,2
	Fuel Consumption at 100% Prime Power	L/h	50,9
	Fuel Consumption at 75% Prime Power	L/h	37,4
	Fuel Consumption at 50% Prime Power	L/h	26,2
	Fuel Consumption at 25% Prime Power	L/h	15,7
Exhaust and Intake System	Maximum allowable back-pressure	kPa	≤10
	Exhaust gas flow	m ³ /min	30
	Exhaust gas temperature, continuous	°C	550
	Exhaust gas temperature, overload	°C	600
	Exhaust pipe diameter - recommended	mm	120
	Maximum allowable inlet restriction	kPa	≤ 6
Cooling System	Combustion air flow	m ³ /min	17,5
	Total system with radiator capacity	Litres	44,5
	Total system without radiator capacity	Litres	17
	Thermostat type	Wax Capsule	
	Cooling package maximum operating temperature	°C	≤104
	Thermostat opens	°C	82
	Thermostat fully open	°C	≤ 93
Lubrication System	Minimum temperature to engine	°C	-25
	Cooling fan flow rate	m ³ /s	6,2
	Sump capacity including filter	Litres	19
	Oil consumption, 100% (l/hr)	L/hr	0,06
Electric System	Lubricating oil temperature	°C	90-105
	Maximum oil temperature	°C	108
	Electrical System Voltage	V	24
	Starter motor	24V×7.5kW	
	Battery	Maintenance-free	

Alternator	60Hz/1800rpm		
General Data	Manufacture / Brand	Leroy-somer	
	Model	TAL-A44-L	
	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	

Tide Power Easycon Function Summary

Controller Model / Deep Sea	EC4.0
Brand / Model	DSE6120 MKIII
Viewable Parameters	
Phase Voltage	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 / •
Engine Figure	
Oil Pressure	•
Water Temperature	•
Fuel Meter / Fuel Sensor	•/○
Speed	•
Battery Voltage	•
Runing hours	•
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)	•
Service Indicate	•
Fault History	•
Gen-Gen Synchronising	x
Gen-Mains Synchronising	x

Remark:

- Standard Supply
- Available as Optional
- x Not Available



DSE6120 MKIII

FEATURES:

Ø The DSE6110 MKIII is an Auto Start Control Module and the DSE6120 MKIII is an Auto Mains (Utility) Failure Control Module suitable for a wide variety of single, diesel or gas, gen-set applications.

Key features :

- Ø 4-Line back-lit LCD text display
- Ø Multiple Display Languages
- Ø Five key menu navigation
- Ø LCD alarm indication
- Ø Customisable power-up text and images
- Ø DSENet expansion compatibility
- Ø Data logging facility
- Ø Internal PLC editor
- Ø Protections disable feature
- Ø Fully configurable via PC using USB communications
- Ø Front panel configuration with PIN protection
- Ø Power save mode
- Ø 3 phase generator sensing and protection
- Ø 3-phase mains (utility) sensing and protection (DSE6120 MKIII only)
- Ø Automatic load transfer control (DSE6120 MKIII only)
- Ø Generator current and power monitoring (kW, kvar, kVA, pf)
- Ø Mains (utility) current and power monitoring (kW, kvar, kVA, pf) (DSE6120 MKIII only)
- Ø kW overload alarm
- Ø Over current protection
- Ø Fuel and start outputs configurable when using CAN
- Ø 6 configurable DC outputs
- Ø 2 configurable volt-free relay outputs
- Ø 4 configurable analogue/digital inputs
- Ø Support for 0 V to 10 V & 4 mA to 20 mA sensors
- Ø 8 configurable digital inputs
- Ø CAN, MPU and alternator frequency speed sensing in one variant
- Ø Real time clock
- Ø Manual and automatic fuel pump control
- Ø Engine pre-heat and post-heat functions
- Ø Engine run-time scheduler
- Ø Engine idle control for starting & stopping
- Ø Fuel level alarms
- Ø 3 configurable maintenance alarms
- Ø Compatible with a wide range of CAN engines, including Tier 4 engine support
- Ø Uses DSE Configuration Suite PC Software for simplified configuration
- Ø Licence-free PC software
- Ø IP65 rating (with optional gasket) offers increased resistance to water ingress
- Ø Configurable CAN read & transmitted information
- Ø 1 alternative configuration