ULTIMATE POWER SOLUTION (FZC)

The world's best dealer for Power Generation, Control System, & Power Solution

POWERED BY: Perkins | LEROY SOMER ALTERNATOR

1253 KVA
3 PHASE
60 Hz

GENERATING SET MODEL (UPSP1253)

Output Ratings	Prime	Standby
380-415 V, 3ph, 60 Hz, 1800 rpm	1253 KVA	1385 KVA
	1002 KW	1108 KW

ENGINE / TECHNICAL DATA

Ratings at 0.8 Power Factor

Engine Make		PERKINS
Engine Model		4012-46TWG2A
Governing Type		Electronic
Number of Cylinder/ Arrangement		12 60° vee
Bore and Stroke (mm)		160 mm x 190 mm
Compression Ratio		12.8 : 1
Displacement (L)		45.8 L
Aspiration/ Cooling		Turbocharged,air-to-water / Water cooled
Combustion System		Direct Injection
Rotation from Flywheel End		Anti-clockwise
Total Lubrication System Capacity		157.5 L
Total Coolant Capacity		173 L
Cycle		4 stroke
Frequency and Engine Speed		60 Hz / 1800 rpm
Fuel Consumption	**@50% load**	223 g/kWh
	@75% load	197 g/kWh
	@100% load	198 g/kWh
	@110% load	202 g/kWh
Exhaust temperature		396-410°C



ALTERNATOR

Make	UPS / Leroy Somer
Model	UPS404G/LSA50.2M6
No. of bearings	1
Insulation	H
Exciter Type	SHUNT
Wires	6/12
Degree of protection	IP23
Winding Pitch	2/3
Overspeed	2250 mn^{-1}
Voltage Regulation	±1%

CONTROL PANEL

Make	DeepSea
Model	6110/20 SERIES

The DSE 6110/20 Seeries., is an Auto Start Control for single genset application. It includes a LCD display which clearly shows the status of engine all the times. This module can either programmed using the front panel or by using configuraton sale PC software.

Metering and Alarm Indications:

- Generator frequency
- UnderSpeed, Overspeed
- Generator volts (L-L, L-N)
- Generator current
- Engine oil pressure
- Engine coolant temperature
- Hours run counter
- Battery volts
- Fail to start/stop
- Emergency stop
- Failed to reach loading voltage/frequency
- Charge fail
- LOW DC voltage
- CAN diagnostic and CAN fail/error

CERTIFIED BY:

IEC | UL CERTIFIED | ISO 9001:2015 | ISO 14001:2015 | CE MARK CERTIFICATION IQS | RoHS COMPLIANT

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STANDARD SPECIFICATIONS

1253 KVA
3 PHASE
50 Hz

1. ENGINE

Perkins four stroke heavy duty high performance industrial type diesel engine.

2. ENGINE FILTERATION SYSTEM

- Cartridge type dry air filter.
- Cartridge type fuel filters.
- Full flow lube oil filter.

All filters have replaceable elements.

3. COOLING RADIATOR

Radiator and cooling fan, complete with safety guards, designed to cool the engine at high ambient temperatures (consult your dealer for de-ration factors)

4. EXHAUST SYSTEM

Exhaust gas flow	188-244 m³/min
Maximum allowable back pressure	5 (kPa)

5. CIRCUIT BREAKER TYPE

3 pole ACB.

6. Fuel System

The baseframe design is not incorporated with an integral fuel tank.

7. ALTERNATOR

7.1 INSULATION SYSTEM

- The insulation system is Class H.
- All windings are impregnated in either a triple dip thermosetting liquid, oil and acid resisting polyester varnish or vacuum pressure impregnated with a special polyesterresin.
- Heavy coat of antitracking varnish additional protection against moisture or condensation.

7.2 AUTOMATIC VOLTAGE REGULATOR (AVR)

The fully sealed Automatic Voltage Regulator maintains the Voltage Regulation at ±1%. Nominal adjustment by means of a trim pot incorporated on the AVR.

8. MOUNTING ARRANGEMENT

8.1 COUPLING

- The Engine and Alternator are directly coupled by means of an SAE flange. The Engine flywheel is flexibly coupled to the Alternator rotor.

8.2 ANTI-VIBRATION MOUNTING PADS

- Anti-Vibration pads are affixed between the Engine/ Alternator feet and the Baseframe thus ensuring complete vibration isolation of the rotating assembly.

8.3 SAFETY GUARDS

- The Fan & Fan Drive along with the Battery Charging Alternator are Safety Guard protected for personnel protection.

9. FACTORY TEST

- The Generating set is load tested before dispatch
- All protective devices control functions and site load conditions are simulated. The generator and its systems are checked before dispatch.

10. EQUIPMENT FINISHING

All mild steel components are fully degreased and painted with powder coated paint to ensure maximum scuff resistance and durability.

11. DOCUMENTATION

Operation & Maintenance manual, Circuit wiring diagrams and Commissioningl/Fault Finding instruction leaflets are accompaniedwith the Generator.

12. QUALITY STANDARDS

The equipment meets the following standards: B84999, B65000, BS5514 IEC 60034, VDE0530, NEMA MG 1.22 and ISO8528.

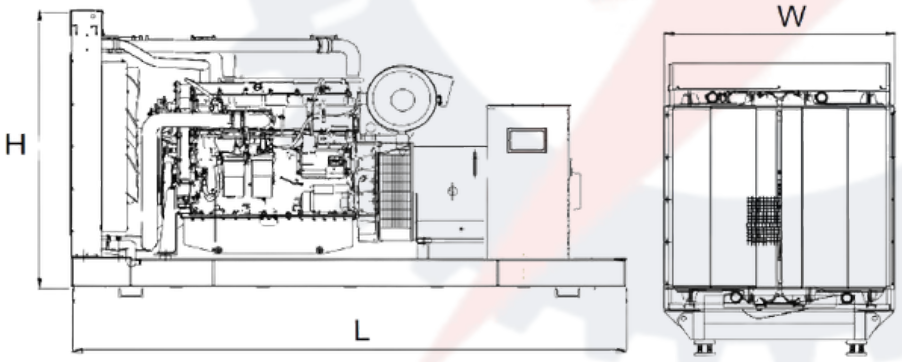
13. WARRANTY

All of the Generating Sets are covered under a warranty policy for a period of 12 months or 1000 working hours, Warranty of the equipment is in line with manufacturers warranty terms & conditions.
(check warranty statement for more details, as it may vary for different countries)

In line with continuous product development, we reserve the right to change specifications without notice

STANDARD GENERATOR DIMENSION

Open type Generator



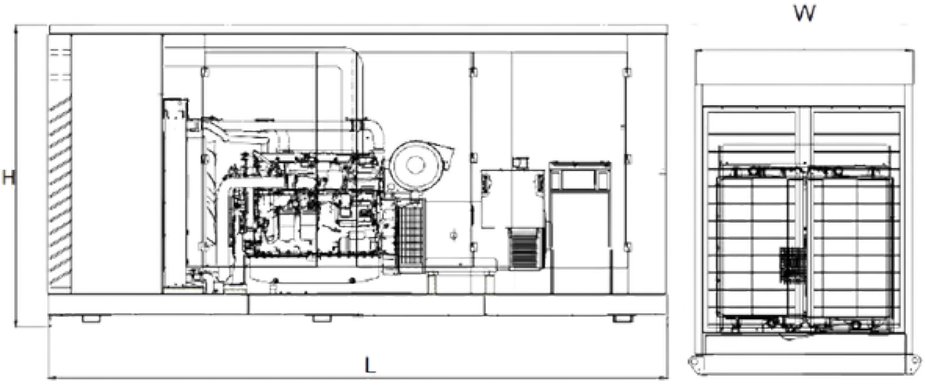
Length, L: **4700 mm**

Height, H: **2600 mm**

Width, W: **2000 mm**

Weight: **11000 kg**

Containerize Generator



Length, L: **12192 mm**

Height, H: **2900 mm**

Width, W: **2438 mm**

Weight: **13000 kg**

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