ULTIMATE POWER SOLUTION (FZC)

Prime

POWERED BY: Perkins | LEROY SOMER ALTERNATOR

706 KVA 3 PHASE — **50 Hz**

60 Hz — **802 KVA** 3 PHASE

GENERATING SET MODEL (UPSP706)

Output Ratings	Prime	Standby
380-415 V, 3ph, 50 Hz, 1500 rpm	706KVA	780KVA
	559 KW	624 KW
380-415 V, 3ph, 60 Hz, 1800 rpm	802 KVA	888 KVA
	642 KW	710 KW

ENGINE / TECHNICAL DATA

Ratings at 0.8 Power Factor

Engine Make	PERKINS	
Engine Model	2806A-E18TTAG4	
Governing Type	Electronic	
Number of Cylinder/ Arrangement	6/ Vertical In-line	
Bore and Stroke (mm)	145 x 183 mm	
Compression Ratio	14:1	
Displacement (L)	18.1 L	
Aspiration/ Cooling	Parallel turbocharged and air-to-air chargecooled	
Combustion System	Direct Injection	
Rotation from Flywheel End	Anti-clockwise, viewed on flywheel	
Total Lubrication System Capacity	68 L	
Total Coolant Capacity	110 L	
Cycle	4 Stroke	
Frequency and Engine Speed	50 Hz / 1500 rpm	60 Hz / 1800 Rpm
Fuel Consumption		
@50% load	196 G/Kwh	197 G/Kwh
@75% load	191 G/Kwh	198 G/Kwh
@100% load	195 G/Kwh	206 G/Kwh
@110% load	195 G/Kwh	206 G/Kwh
Exhaust temperature	461°C	433°C



ALTERNATOR

Make	UPS / LEROYSOMER (TAL)
Model	
No. of bearings	1
Insulation	H
Coupling	Direct
Exciter Type	SHUNT
Wires	6/12
Degree of protection	IP23
Winding Pitching	2/3
Overspeed	2250 mn^{-1}
Voltage Regulation	±1%

CONTROL PANEL

Make	DeepSea
Model	6110/20 SERIES

The DSE 6110/20 Series, 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, RoHS COMPLIANT

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STANDARD SPECIFICATIONS

706 KVA
3 PHASE
50 Hz

802 KVA
3 PHASE
60 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	119 m³/min
Maximum allowable back pressure	10 (kPa)

5.CIRCUIT BREAKER TYPE

3 pole MCCB. (4 pole is optional)

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 Basetrame thus ensuring complete vibration isolation of the rotating assembly.

8.3 SAFETYGUARDS

- 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 Commissioning/Fault Finding instruction leaflets are accompaniedwith the Generator.

12.QUALITY STANDARDS

The equipmentmeets thefollowingstandards: B84999, B65000, BS5514 IEC 60034, VDE0530, NEMA MG 1.22 and ISO8528.

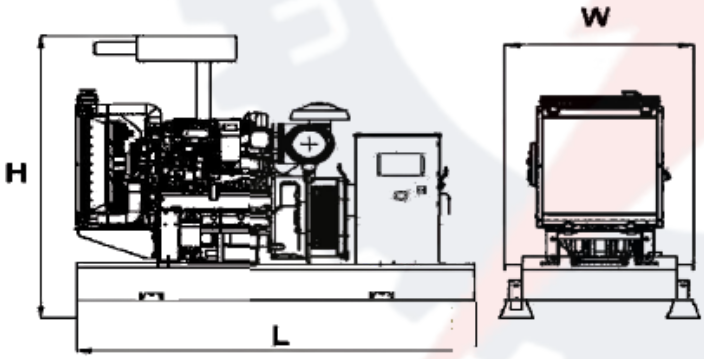
13. WARRANTY

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

Standard Generator



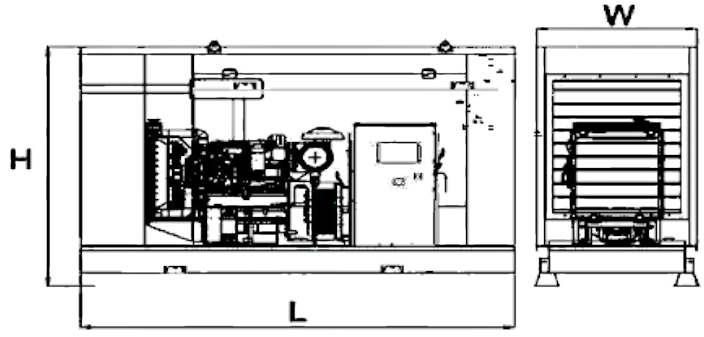
Length, L: **4200 mm**

Height, H: **2250 mm**

Width, W: **1720 mm**

Weight: **6000 KG**

Generator with Soundproof Canopy



Length, L: **5800 mm**

Height, H: **2400 mm**

Width, W: **2240 mm**

Weight: **6500 KG**

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