# ULTIMATE POWER SOLUTION (FZC)

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

**POWERED BY:** Perkins · LEROY SOMER ALTERNATOR

**200 KVA**
**3 PHASE**
**50 Hz**

## GENERATING SET MODEL (UPSP200)

| Output Ratings | Prime | Standby |
|---|---|---|
| 380-415 V, 3ph, 50 Hz, 1500 rpm | 200 KVA | 220 KVA |
| | 160 KW | 176 KW |

## ENGINE / TECHNICAL DATA

Ratings at 0.8 Power Factor

| | | |
|---|---|---|
| **Engine Make** | | PERKINS |
| **Engine Model** | | 1106A-70TAG4 |
| **Governing Type** | | Mechanical |
| **Number of Cylinder/ Arrangement** | | 6/ Vertical in-line |
| **Bore and Stroke (mm)** | | 105 mm x 135 mm |
| **Compression Ratio** | | 16 : 1 |
| **Displacement (L)** | | 7.01 L |
| **Aspiration/ Cooling** | | Turbocharged & aircharged/ Water cooled |
| **Combustion System** | | Direct Injection |
| **Rotation from Flywheel End** | | Anti-clockwise |
| **Total Lubrication System Capacity** | | 18 L |
| **Total Coolant Capacity** | | 21 L |
| **Cycle** | | 4 stroke |
| **Frequency and Engine Speed** | | 50 Hz / 1500 rpm |
| **Fuel Consumption** | **@50% load** | 23.1 L/hr |
| | **@75% load** | 34.7 L/hr |
| | **@100% load** | 45.8 L/hr |
| | **@110% load** | 49.4 L/hr |
| **Exhaust temperature** | | 550°C |

## ALTERNATOR

| | |
|---|---|
| **Make** | UPS / Leroy Somer(TAL) |
| **Model** | UPS274G/ TAL044M |
| **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

**200 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 | 34.9-36.8 m³/min |
| Maximum allowable back pressure | 6 (kPa) |

## 5. CIRCUIT BREAKER TYPE

3 pole MCCB. (4 pole is optional)

## 6. Fuel System

The baseframe design is incorporated with an integral fuel tank with a capacity of approx. 8 hours runningat Full Load. The tank is supplied complete with fill cap breather, fuel feed and return lines to the Engine and drain plug.

## 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 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.

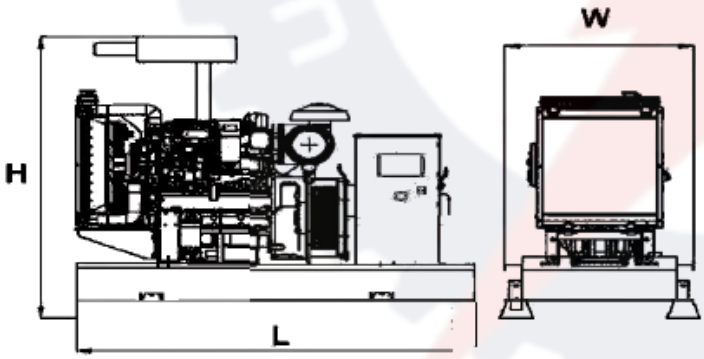
## 13. WARRANTY

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



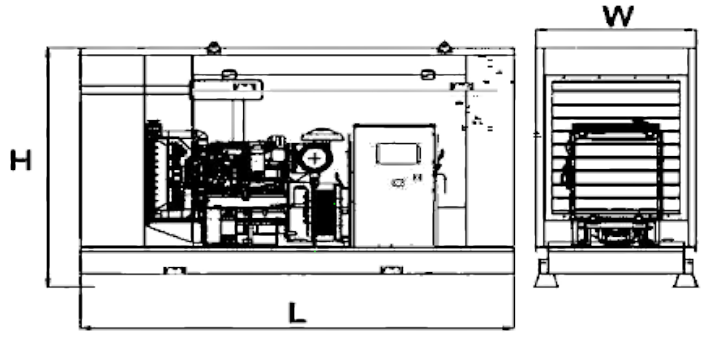

**Length, L:** **2440 mm**

**Height, H:** **1500 mm**

**Width, W:** **900 mm**

**Weight:** **2000 kg**

Close type Generator




**Length, L:** **3320 mm**

**Height, H:** **1850 mm**

**Width, W:** **1100 mm**

**Weight:** **2500 kg**

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