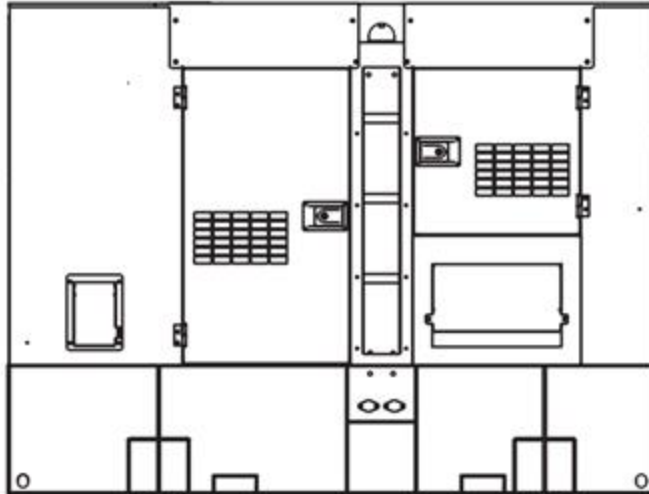


## POWER OUTPUT

Prime Rating — 90 kW (112 kVA)  
 Standby Rating — 100 kW (125 kVA)  
 3-Phase, 60 Hertz, 0.8 PF



## STANDARD FEATURES

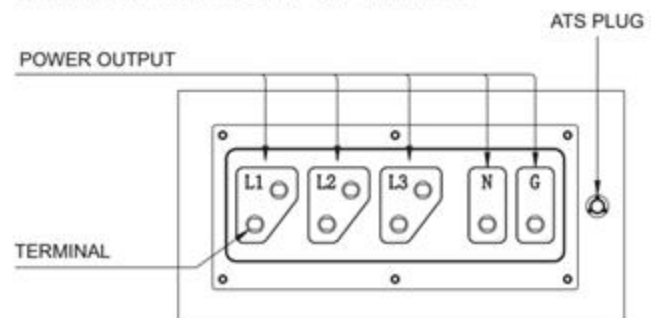
- Heavy duty, 4-cycle, variable speed fan, diesel engine provides maximum reliability.
- Brushless alternator reduces service and maintenance requirements. Class H protection.
  - Open delta alternator design provides virtually unlimited excitation for maximum motor starting capability.
  - Automatic voltage regulator (AVR) provides precise regulation.
- Electronic governor system maintains frequency to  $\pm 0.25\%$ .
- Full load acceptance of standby nameplate rating in one step
- Soundproof, weather resistant, steel housing provides operation at 65dB (A) at 7meters. Fully lockable enclosure allows safety operation. Outdoor operation available.
- Internal fuel tank with direct observing glass, and fuel level meter display on control panel
- E-coat and powder coat paint provides durability and weather protection.
- Digital engine gauges including oil pressure, water temperature, battery volts, engine speed, and fuel level.
- Analog generator instrumentation including Ampere meter,
- Voltage meter, frequency meter, ammeter phase selector switch, voltmeter phase selector switch. Analog generator instrumentation and regulator adjustment.
- Deepsea/Comap professional generator controller.
  - High visibility LCD display with heated screen and alphanumeric readout.
  - IP65 Protection standard, operational temperature range of -40° to 85° C.
  - Modbus interface for gauge panel and expansion options.
  - DPF cleaning cycle indication.
  - Log record for inspection
- Automatic safety shutdown system monitors the water temperature, engine oil pressure, low coolant, low DEF, overspeed, and overcrank. Warning lights indicate abnormal conditions.
- Fuel/water separator. Removes condensation from fuel for extended engine life.
- Emergency stop switch — when manually activated, shuts down in any emergency.

Normal conversation allows substantially lower operating noise levels than competitive designs. UNIVGensets are at home on construction sites, in residential neighborhoods, and at hospitals just about anywhere.

|      |                        |
|------|------------------------|
| 90   | Subway / truck traffic |
| 80   | Average city traffic   |
| 70   | Inside car at 60 mph   |
| 68.0 | Genset at 7m           |
| 60   | Air conditioner at 6m  |
| 50   | Normal conversation    |

68.0  
DECIBELS

## GENERATOR OUTPUT PANEL



**SPECIFICATIONS**

| Generator Specifications                   |  |
|--|--|
| Model                                      | Revolving field, self-ventilated weatherproof                      |
| Armature Connection                        | Star with Neutral  |
| Phase                                      | 3  |
| Standby Output                             | 100 KW (125 KVA)   |
| Prime Output                               | 90 KW (112 KVA)  |
| Power Factor                               | 0.8  |
| Voltage Regulation (No load to full load)  | ±0.5%  |
| Generator RPM                              | 1800   |
| Frequency                                  | 60 Hz  |
| No. of Poles                               | 4  |
| Excitation                                 | Brushless with AVR   |
| Frequency Regulation: No Load to Full Load | Isochronous under varying loads from no load to 100% rated load    |
| Frequency Regulation: Steady State         | ±0.25% of mean value for constant loads from no load to full load. |
| Insulation                                 | Class H  |
| Sound Level dB(A) Full load at 7M          | 68   |

| Amperage                                    |              |
|---|--------------|
| Rated Voltage                               | Maximum Amps |
| 3Ø Volt 480/277                             | 135.3 Amps   |
| 3Ø Volt 460/266                             | 141.2 Amps   |
| 3Ø Volt 400/230                             | 162.3 Amps   |
| 3Ø Volt 127/220                             | 295.2 Amps   |
| Main Line Circuit Breaker Rating            | 400 Amps     |
| Over Current Relay Trip Set Point 220V Mode | 440 Amps     |

| Fuel System                  |                           |
|------------------------------|---------------------------|
| Maximum Fuel Flow (per hour) | 34.3 gallons (130 liters) |
| Fuel Tank Capacity           | 100 gallons (380 liters)  |
| Fuel Consumption             | L / h                     |
| At full load                 | 30.1                      |
| At 3/4 load                  | 22.6                      |
| At 1/2 load                  | 16.1                      |
| At 1/4 load                  | 9.3                       |

| Control system     |                               |
|--------------------|-------------------------------|
| Controller Brand   | Deepsea                       |
| Model              | DSE7320                       |
| Module             | Manual/Auto start/stop module |
| Standard function  | Engine control                |
|                    | Generator monitoring          |
|                    | Generator protection          |
|                    | Specification                 |
| Display            | Frequency                     |
|                    | Battery voltage               |
|                    | Running hour                  |
| Warning/shutdown   | under/over voltage            |
|                    | under/over speed              |
|                    | under/over frequency          |
|                    | Low oil pressure              |
|                    | High water temperature        |
| Communication port | USB                           |

| Engine Specifications     |  |
|---------------------------|--|
| Make / Model              | Perkins / 1204F-E44TTAG2   |
| Emissions                 | EPA Tier4 Final  |
| Starting System           | Electric   |
| Design                    | 4-cycle, water cooled, direct injection, natural intake air cooled |
| Displacement              | 4.4 liters   |
| No. cylinders             | 4  |
| Bore x Stroke             | 105 x 127 mm   |
| Gross Engine Power Output | 117.4 kW   |
| Compression Ratio         | 16.5 : 1   |
| Engine Speed              | 1800 rpm   |
| Overspeed Limit           | 2070 rpm   |
| Oil Capacity              | 2.48 US gallons (9.4 liters)                                       |
| Coolant Capacity          | 4.83 US gallons (18.3 liters)                                      |
| Battery                   | 12V 100Ah x 1  |

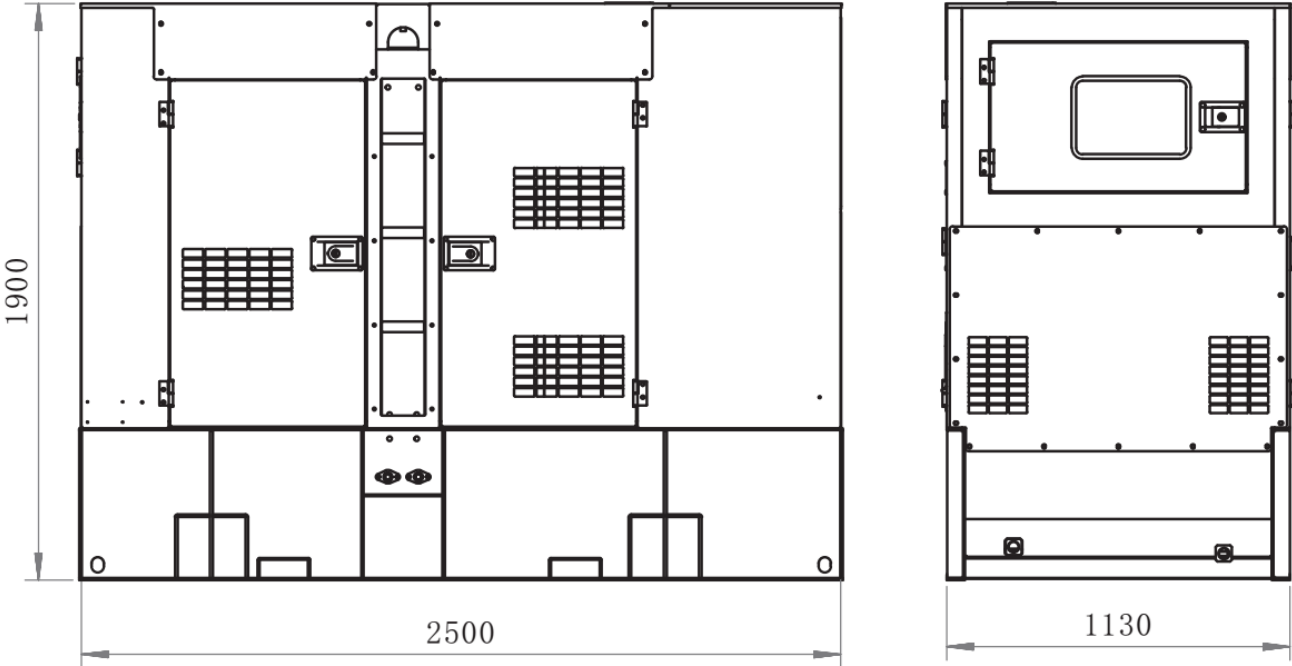
| Alternator                      |                                |
|---------------------------------|--------------------------------|
| Alternator Brand                | Stamford/Mecc alte             |
| Alternator Model                | UCI274C/ECP34 2S4A             |
| Excitation                      | Brushless, Self-Excited system |
| Capacity(KVA)                   | 117.5kva                       |
| Power(KW)                       | 94kw                           |
| Efficiency(%)                   | 88%                            |
| Insullation class               | Class H                        |
| Protection class                | Ip23                           |
| Steady state voltage regulation | ±1%                            |
| Voltage control                 | AVR                            |

**WARRANTY\***

**Generator**

12 months from date of purchase or 1000 hours (whichever occurs first)

| NOTICE   |
|--|
| Enough Air flow is extremely important to Generator operation. Improper connection can cause electrocution and/or property damage. Do not connect to any electrical system except through an approved device. Specifications are subject to change without notice. |



| Weight                      |          |
|-----------------------------|----------|
| Dry Weight                  | 2,200 kg |
| Wet Weight                  | 2,600 kg |
| Max. Lifting Point capacity | 4,000 kg |

