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# Дизельный генератор PRO115-4

(EUV Compliant)

50/60Hz Switchable Rating  
Prime Product  
115 kVA / 92 kWe

## KEY FEATURES

### Rental Ready Features

- Forklift pockets
- Fully certified single point lift
- Coolant & oil drains piped to baseframe
- EMC Certified
- Fully certified spark arresting system
- 50/60 Hz switchable frequency via terminal link
- Optimized cable entry for easy hook-up
- Sound isolated control panel with integrated power distribution access.
- Robust hook-up point for lugged cable connection
- AC protected by limit switch on distribution door
- Emergency stop on control panel and enclosure
- Inboard mounted 3 way fuel valve connection for external fuel connection

### Engine

- Perkins four-stroke diesel engine combines consistent performance and excellent fuel economy with minimal weight

### After Treatment

- Diesel Emissions Fluid (DEF) Tank

### Fuel / Emissions Strategy

- EUV compliance

### Single-Source Supplier

- Factory designed and fully prototype tested with certified torsion vibration analysis available
- ISO 9001:2000 compliant facility



### DeepSea Control Panel

- Simple user friendly interface and navigation
- Single point interface for voltage / frequency adjustment

### Alternator

- Leroy Somer Alternator
- Coastal insulation protection
- Self (shunt) excitation

### Automatic Voltage Regulator (AVR)

- Three-phase sensing
- Adjustable volts-per-hertz regulation
- Provides precise control, excellent block loading, and constant voltage in the normal operating range.

### Enclosure

- Galvanized sheet steel construction with polyester powder-coated finish
- Six lockable (padlock / keylock) access doors for ease of maintenance
- Perspex control panel viewing window with key lock
- Fuel fill and battery can only be reached through lockable access doors

# STANDARD EQUIPMENT

## After Treatment

- Engine Mounted Clean Emissions Module (CEM)
- Diesel Emissions Fluid (DEF) Tank located in discharge box, accessible through lockable access door

## Air Inlet

- Air cleaner with dust cap and service indicator
- Twin turbocharger and air-to-air aftercooler

## Alternator

- LL3114F frame, three-phase, random wound, 12-lead design, self-excited, 2/3 pitch
- Coastal insulation protection

## Charging System

- Charging alternator; 12V, heavy duty with integral regulator and belt guards

## Control Panel

- DeepSea 7320 genset mounted digital controller
- 50/60Hz frequency switch via terminal link
- Panel mounted Emergency stop switch
- Automatic set-point adjustment integrated with voltage and frequency changes
- Automatic Voltage Regulator (R250)
- Fully featured power metering, protective relaying and engine/generator control and monitoring

## Cooling System

- Cooling package mounted radiator with vertical air discharge
- Low coolant level shutdown.
- 50% coolant antifreeze with corrosion inhibitor

## Distribution System

- Robust steel enclosure, separate hinged, lockable door with rust resistant pinned hinges
- Main circuit breaker 4-pole, 200A with 12V DC shunt trip wired to distribution door safety switch
- Two wire remote start/stop terminals and 230 VAC auxiliary power connection for rapid starting
- Cable support

## Enclosure

- Sound attenuating, galvanized sheet metal enclosure with exceptional noise performance
- External emergency stop switch on enclosure
- Modular panel construction with a welded roof design
- Interior walls, ceilings and ducts insulated with precision cut noise insulating materials
- Sealed quarter turn compression door latches with key and padlock capabilities
- Front and rear access provided through hinged doors
- External single point lifting frame
- Enclosure is protected by powder coated white paint

## Engine

- Perkins 1204J twin turbo heavy duty diesel engine
- Four-stroke diesel engine combines consistent performance and excellent fuel economy with minimum weight

### **Exhaust System**

- Integrated spark arresting system with flexible connectors

### **Fuel System**

- 518L dual wall fuel tank, 25.4 hr runtime @ 75% prime rating, internal fuel fill
- Engine mounted primary (10micron) and secondary (4micron) fuel filters with integrated water separator
- Manual Push Button priming pump
- Mechanical fuel gauge
- Configurable bund level sensor. Low level warning & high level warning / shutdown.

### **Lube System**

- On engine primary & secondary oil filters, filler and dipstick.
- Closed crankcase breather.
- 500 hour oil change intervals

### **Mounting System**

- Generator set soft mounted using captive vibration mounts
- Heavy duty steel base frame contains integral dual wall fuel tank
- Provides 110% spill containment of all engine fluids
- Forklift pockets

### **Starting System**

- Single electric starting motor, 12V

### **General**

- Factory testing of standard generator set
- Full manufacturer's warranty, O&M manuals

## **AVAILABLE OPTIONS**

- Socket box with integrated MCB & RCBO protection
- Anti-condensation heater 230 VAC
- Coolant heater 230 VAC
- Auxiliary connections for customer supplied fuel transfer with 3 way fuel transfer system, internally mounted within the bunded area.
- Electronic Fuel gauge with control panel display. Low level fuel warning & shutdown.
- Coolant drain line with internal brass ball control valve piped to base-frame
- Air cleaner, two stage cyclonic/paper with dust cup and service indicator
- 1x 12V 950CCA maintenance free batteries with single pole battery isolator switch.
- 12V battery charger
- Permanent Magnet Generator (PMG)
- Earth Leakage
- CE labelling
- Lube oil sump pump

## Power Ratings

| Frequency | Voltage  | kVA   | kW    | Output Amps (A) | Breaker Rating (A) |
|-----------|----------|-------|-------|-----------------|--------------------|
| 50 Hz     | 415/240V | 115.0 | 92.0  | 160             | 200                |
|           | 400/230V | 115.0 | 92.0  | 166             |                    |
|           | 380/220V | 115.0 | 92.0  | 175             |                    |
| 60 Hz     | 480/277V | 125.0 | 100.0 | 150             | 200                |
|           | 440/254V | 125.0 | 100.0 | 164             |                    |
|           | 380/220V | 120.0 | 96.0  | 182             |                    |
|           | 240/139V | -     | -     | -               |                    |
|           | 220/127V | -     | -     | -               |                    |

Ratings at 0.8 power factor.

Prime Rating: These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

Power available at variable load with a load factor not exceeding 80% of the prime power rating in a 24 hour period.

## Weights & Dimensions

|                                        |     |           |           |     |           |       |
|----------------------------------------|-----|-----------|-----------|-----|-----------|-------|
| Length (mm)                            |     |           |           |     |           | 2970- |
| Width (mm)                             |     |           |           |     |           | 1150- |
| Height (mm)                            |     |           |           |     |           | 2076- |
| Weight - Lube Oil & Coolant (kg)       |     |           |           |     |           | 2077  |
| Weight - Lube Oil, Coolant & Fuel (kg) |     |           |           |     |           | 2527  |
| Sockets                                | 15A | 16A       | 32A       | 50A | 63A       | 125A  |
| CEE Form                               | —   | 2x1ph+N+E | 1x3ph+N+E | —   | 1x3ph+N+E |       |

## PRO 115-4 Technical Data

### Generator Set Technical Data

|                                     | Units    | 50 Hz       | 60 Hz      |
|-------------------------------------|----------|-------------|------------|
| Power Rating                        | kW (kVA) | 115 (92)    | 120 (96)   |
| Oil pan capacity                    | L        | 7           | 7          |
| Fuel consumption                    |          |             |            |
| 100% Load                           | L/hr     | 27.3 (7.2)  | 28 (7.4)   |
| 75% Load                            |          | 20.4 (5.28) | 21(5.54)   |
| 50% Load                            |          | 13.9 (3.7)  | 15(3.96)   |
| Fuel Tank Capacity                  | L        | 518         |            |
| DEF Tank Capacity¥                  | L        | 28          |            |
| Running Time (75% Load)             | Hrs      | 25.4        | 24.7       |
| Ambeint Capability                  | °C       | 36 @ 750m   | 43 @ 750m  |
| Engine & Radiator Coolant Capacity  | L        | 19.5 (5.1)  |            |
| Engine Coolant Capacity             | L        | 9.1 (2.4)   |            |
| Combustion Airflow                  | m3/min   |             |            |
| Exhaust flow at rated – dry exhaust | m3/min   | 14.1 (498)  | 15.6 (551) |
| Exhaust temperature at rated kW     | °C       | 530 (986)   | 530 (986)  |
| Noise Rating                        |          | 93          | 96         |
| Sound Power*                        |          |             |            |
| 1m at 100% Load                     | dB(A)    | 77.07       | 80.54      |
| 7m at 100% Load                     |          | 67.75       | 70.26      |
| 1m at 75% Load                      |          | 76.53       | 79.99      |
| 7m at 75% Load                      |          | 67.02       | 69.73      |

\*Guaranteed sound power as per 2000/14/EC

¥ DEF consumption is on average approximately 4% of the fuel consumption. DEF tank capacity is sufficient to last more than 24hrs when fully filled.

# PRO Rental Product Range

## Perkins 1204J Engine Data

|                      |                                             |
|----------------------|---------------------------------------------|
| Engine               | 1204J-E44TTAG2                              |
| Bore – mm            | 105                                         |
| Stroke – mm          | 127                                         |
| Displacement – L     | 4.4                                         |
| Compression ratio    | 18.23:1                                     |
| Engine RPM           | 1500 / 1800                                 |
| Aspiration           | Turbocharged - Air to Air Aftercooled (TTA) |
| Aftercooler type     | ATAAC                                       |
| Turbocharger         | Single                                      |
| Fuel system          | Direct Injection                            |
| Governor Type        | Electronic ECM controlled (A6E2)            |
| Fuel specification   | Ultra Low Sulphur Diesel Only (ULSD)        |
| Oil specification    | 15W-40 CK-4                                 |
| Diesel Exhaust Fluid | ISO22241-1                                  |

## Alternator Data

|                                   |                                              |
|-----------------------------------|----------------------------------------------|
| Frame Size                        | LL3114F                                      |
| Pitch                             | 2/3                                          |
| No of Poles                       | 4                                            |
| Excitation                        | Static regulated, brushless, self-excited    |
| No of Bearings                    | Single bearing, close coupled                |
| Insulation Class                  | H                                            |
| Temperature rise                  | 125/40°C                                     |
| Enclosure IP Rating               | IP23                                         |
| Overspeed Capability (% of rated) | 25%                                          |
| Voltage Regulator                 | 3 phase sensing with adjustable Volts-per-Hz |
| Voltage regulation                | Less than ± 0.5%                             |
| Telephone Harmonic Factor (THF)   | Less than 2%                                 |
| Total Harmonic Distortion (THD)   | Less than 2%                                 |

\* Materials and specifications are subject to change without notice.

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