



Introduction

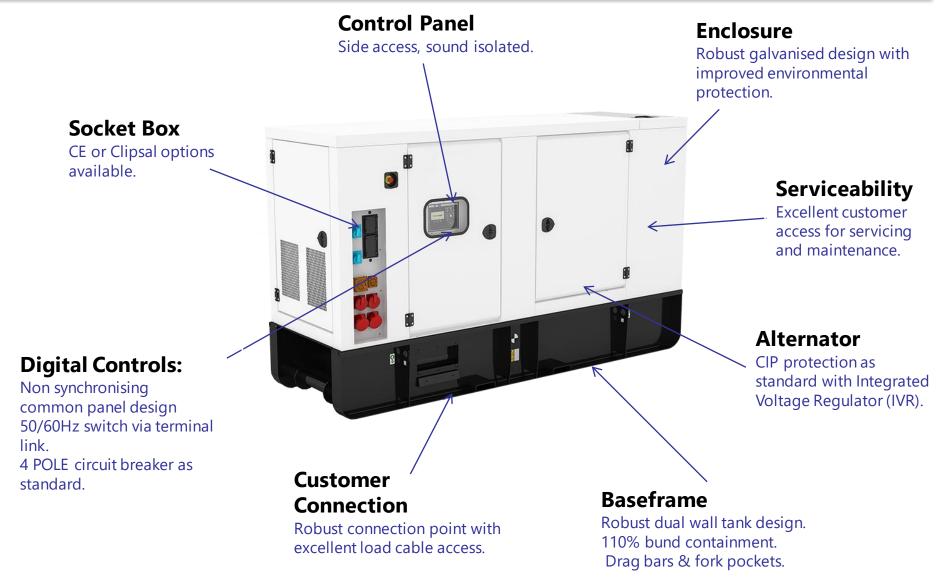


- Introducing the New Professional Rental Operator (PRO) Range
- EUV emissions compliant offering
- Fuel optimised offering
- Now available to order via Gensets Online
- EU Emissions legislation at both 50 & 60 Hz
- Full range of new digital control panels



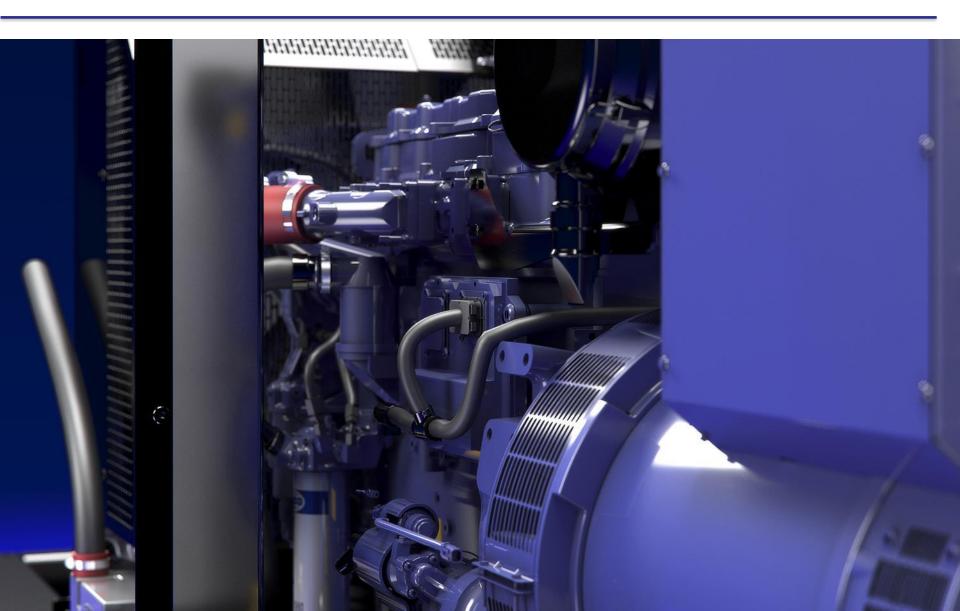
Rental Ready





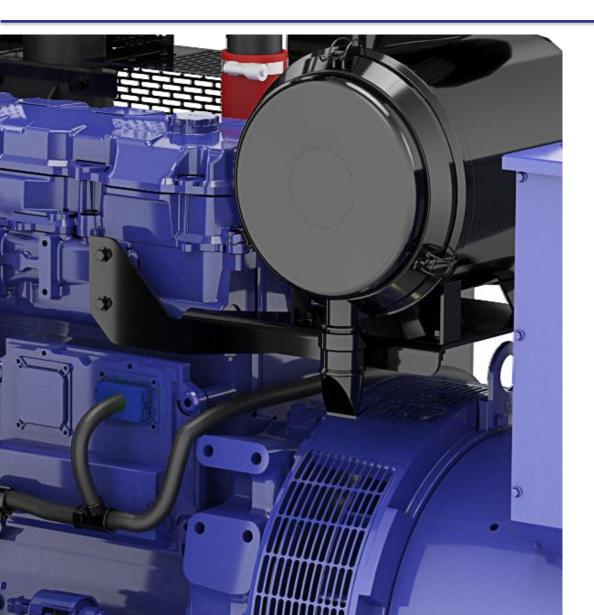
Performance





Engine





- Perkins engines delivering various emissions variants
 - 'A' Variants for nonemissions compliant requirements
 - 'J' Variants for EU stage V requirements
- 500 hours service interval

Performance



Introducing a new Viscous clutch fan drive (275-550 kVA)

Benefits including:

- Improved fuel economy at part loads.
- Lower package noise under part loads.
- Reduce water, dust and snow ingress.
- Reduce air flow in cold weather conditions.
- No clutch maintenance required.



Alternator



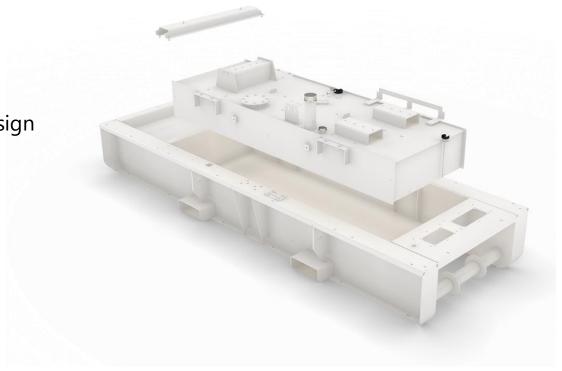


- Leroy Somer alternator standard on all models
 - Ingress protection IP23.
 - Insulation class and temperature rise class H.
- Integrated Voltage Regulator (IVR)
 - Three-phase sensing.
 - Adjustable volts-per-hertz regulation.
 - Provides precise control, excellent block loading and constant voltage in the normal operating range.

Basetank



- 110% Open bund design
- Bund level alarm
- Bund level display



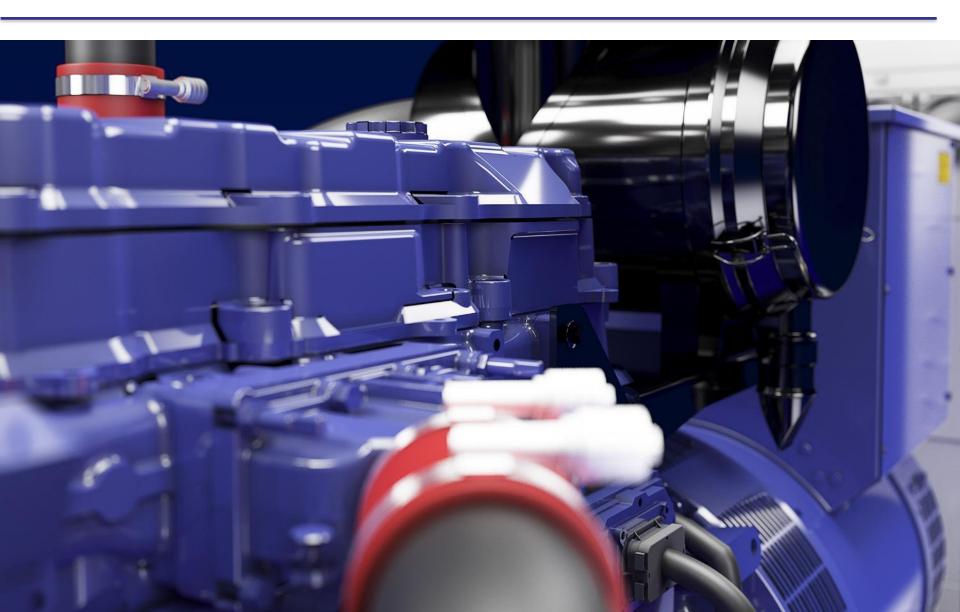
Environment



- EUIIIa/EUV emissions compliant.
 - Limits particulate emissions from constant speed engines in off-road, transportable applications.
 - EUV has additional engine aftertreatment Diesel Oxidation Catalyst, Cooled Exhaust Gas Recirculation, Electronic Common Rail, Diesel Particulate Filter, Selective Catalytic Reduction.
 - Applicable to rental / mobile applications within the EU, Norway, Switzerland and Turkey.
- Noise directive to EC/2006/14/EC
- CE Certification.
- Superior water ingress protection.
- ISO 8528 Governing.
- Alternators with System 4 / Coastal Ingress Protection (CIP).
- Cold Start:
 - Unaided = -10° C
 - Aided = -25° C

EUV Enhancements





EUV Technology



Electronic Common Rail

Very high pressure fuel is delivered to electronically controlled injectors. This delivers a very fine diesel spray and enhances the combustion process.



Cooled Exhaust Gas Recirculation

A small proportion of the exhaust gas is cooled and recirculated back into the engine. Thanks to a reduction of oxygen in the cylinder less NOX is created during combustion



Diesel Oxidation Catalyst

A stainless-steel canister with a flow-through substrate coated with a high-performance catalyst. Exhaust gas from the engine passes over the catalyst where a chemical reaction takes place to oxidize cabon monoxide, hydrocarbons, and the soluble organic fraction (SOF) of particulate matter.



Diesel Particulate Filter

Exhaust gas passes through the walls of ceramic lattice, trapping soot particles (PM). These are then burned off through a process of regeneration

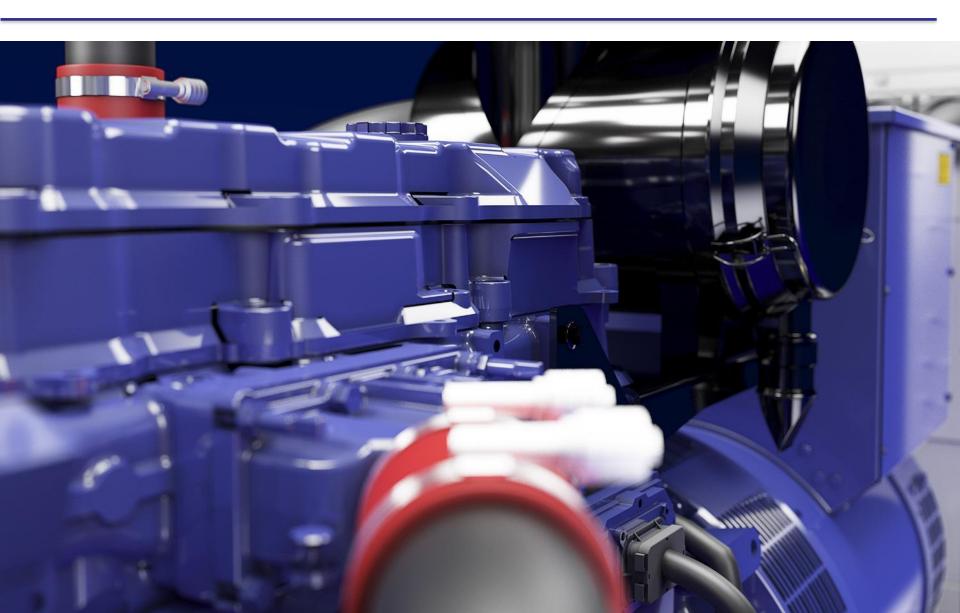


Selective Catalytic Reduction

A fine spray of urea solution is mixed with exhaust gases. A special ceramic catalyst uses this urea to convert NOX into nitrogen and water. A separate tank is required for the diesel exhaust fluid (DEF also known as Adblue)

Serviceability





Installation



- Common component mounting positions.
- Cable access directly underneath control panel via side / rear of generator set.
- Grouped fuel connections, gauge and fill pipe.
- Base frame lifting points as standard.
- Customer connections isolated from main breaker.



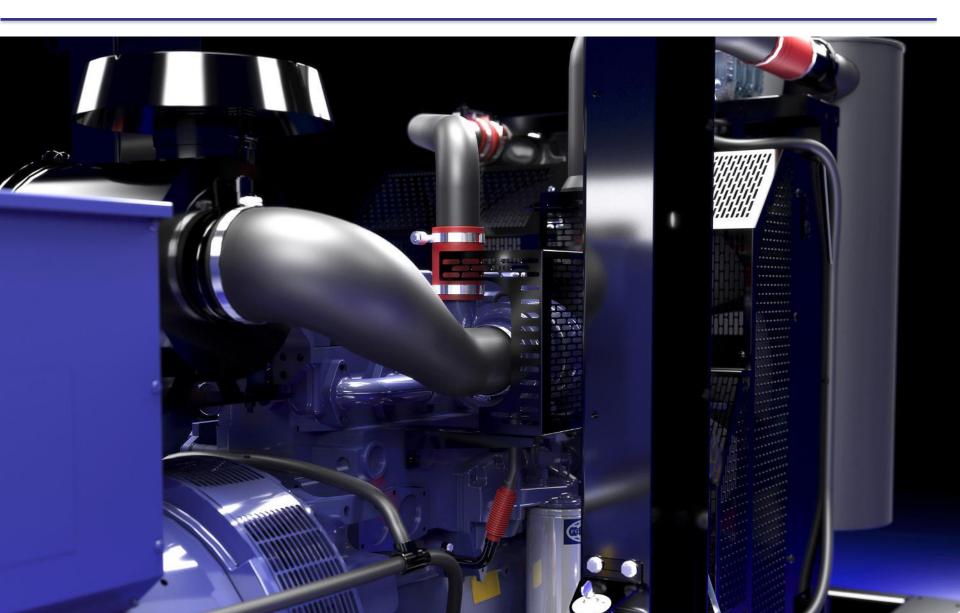
Maintenance





Features





Standard Features*



- EUV emissions / Fuel Optimised offering
- CE Certification
- 50 & 60 Hz switchable
- Variable speed viscous clutch fan drive
- Extended capacity, dual wall bunded base tank
- Galvanised steel enclosure
- Fully lockable with latches on all doors
- Single & multi point lift
- Forklift pockets & drag bar
- Deepsea 7320 control panel
- Emergency stop pushbutton
- 500 hour service interval
- Remote monitoring
- Rental fuel filter Fuel / water separator
- Air filter
- Busbar connections
- Battery isolator
- Spark arrestor / Residential silencer
- System 4 alternator
- 3-way fuel valve
- Removable radiator plate
- 4 POLE circuit breaker

- Blanking plate
- 12 month warranty (Prime)
- 24 month warranty (Standby 500 hrs/yr)
- Low coolant level shutdown
- Low fuel level shutdown
- Electronic governor
- Shunt Trip/UV Trip
- RFI filter
- Panel mounted fuel gauge
- Speed adjust potentiometer



^{*} Please refer to the price books for specific features per model.

Optional Features*



- 1000 hour service interval.
- PowerWizard 4.1 Upgrade.
- Comap Inteligen & Intelivision 5.
- Deif AGC4.
- CEE form sockets.
- CLIPSAL sockets.
- Dual element air cleaner.
- Permanent magnet.
- Battery charger.
- Jacket water heaters.
- Alternator heater.
- Coolant heater & panel circuitry.

- Sump pump.
- Earth leakage relay.
- Lube oil drain pump.



^{*} Please refer to the price books for specific option availability per model.

Enclosure



- Galvanised steel protected by powder coat paint.
- Corrosion resistant air inlet modules.
- Black finish stainless steel locks and hinges.
- Zinc plated / stainless steel fasteners.
- CEE form sockets.
- Socket box blanking plate.
- Lifting arch.

- 4 point lifting.
- Dedicated drag bar
 - 3 way fuel valves.
- Fuel / water separators.
- Battery isolator switch.
 - Breaker terminal extensions.
 - Fork lift pockets.







Enclosure



Performance

- Complies with stage 2 noise levels of the European Community Directive 2000/14/EC.
- Ambient clearance of 42°C with no derate*.

Serviceability

- Side hinged doors removable at 90° providing ample access in confined spaces.
- Removable end panels facilitate radiator & alternator cleaning and maintenance.







^{*} Power output derate will apply.

Control DeepSea DSE7320



- Large back-lit icon LCD display.
- 3-phase generator sensing.
- Generator & load power monitoring (kW, kVA, kV Ar, pf)
- Generator overload protection (kW).
- Configurable inputs & outputs.
- Fuel and start outputs (configurable on CAN).
- Configurable DC, volt-free and staged loading outputs.
- CAN & alternator speed sensing.
- Engine speed protection, engine hours counter, engine pre-heat, engine run-time. scheduler, engine idle control for start/stop.
- Battery voltage monitoring.
- Configurable event log (50).
- Engine maintenance alarms (3)





Control Panel Options



The PowerWizard 4.1 digital control panel.

Key Features:

- PowerWizard 2.1+ functionality, including the additional features listed below:
 - 5.5" 480 x 320 pixel LCD display.
 - Generator set paralleling.
 - 12 configurable digital inputs.
 - 8 dedicated digital inputs.
 - 16 programmable digital outputs.
 - 4 dedicated digital outputs.
 - Three phase Bus sensing.



Comap – Inteligen



- Genset controller for single/multiple generator sets operating in standby or parallel modes.
- Multiple communication options easy remote supervising and servicing.
- Generator set performance log and Event-based history.
- Automatic synchronizing and power control.
- AMF function, Baseload, Import / Export, Peak shaving, Voltage and PF control (AVR).
- Generator set measurement, mains measurement.
- Inputs and outputs configurable for various customer needs.
- Integrated PLC programmable functions.
- Integrated fixed and configurable protections.



Deif AGC4



- Automatic Genset Controller, AGC4.
- Multiple operating modes backup power, start/stop, synchronisation and load sharing.
- Synchronisation of up to 56 breakers.
- Multi-master power management.
- Load-dependent start and stop.
- Load management.
- Emulation for Fast Training & I/O test.
- Hot Standby.



