

PRO 115-4

(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 complaince

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 loctated in discharge box, accessable 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 though 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)
	415/240V	115.0	92.0	160	
50 Hz	400/230V	115.0	92.0	166	200
	380/220V	115.0	92.0	175	
	480/277V	125.0	100.0	150	
	440/254V	125.0	100.0	164	200
60 Hz	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	e Oil & Coolar	nt (kg)					2077
Weight - Lube	e 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 75% Load 50% Load	L/hr	27.3 (7.2) 20.4 (5.28) 13.9 (3.7)	28 (7.4) 21(5.54) 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	9.5 (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 Sound Power*		93	96
1m at 100% Load 7m at 100% Load	dB(A)	77.07 67.75	80.54 70.26
1m at 75% Load 7m at 75% Load		76.53 67.02	79.99 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.



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 SizeLL3114FPitch2/3No of Poles4ExictationStatic regulated, brushless, self-excitedNo of BearingsSingle bearing, close coupledInsulation ClassSingle bearing, close coupledInsulation Class125/40°CEnclosure IP Rating125/40°COverspeed Capability (% of rated)25%Voltage RegulatorLess than ± 0.5%Telephone Harmonic Factor (THF)Less than 2%Total Harmonic Distortion (THD)Less than 2%		
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Voltage regulationLess than ± 0.5%Telephone Harmonic Factor (THF)Less than 2%	Overspeed Capability (% of rated)	25%
Telephone Harmonic Factor (THF)Less than 2%	Voltage Regulator	3 phase sensing with adjustable Volts-per-Hz
	Voltage regulation	Less than $\pm 0.5\%$
Total Harmonic Distortion (THD)	Telephone Harmonic Factor (THF)	Less than 2%
	Total Harmonic Distortion (THD)	Less than 2%

* Materials and specifications are subject to change without notice.

FG Wilson manufactures product in the following locations:

Brazil • China • India

With headquarters in Northern Ireland, FG Wilson operates through a Global Dealer Network. To contact your local Sales Office please visit the FG Wilson website at www.FGWilson.com. FG Wilson is a trading name of Caterpillar (NI) Limited.