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PRO Rental Product Range

PRO60-4

Emissions EU Stage V

50/60 Hz Switchable
Rating Prime Product
60 kVA / 48 kW

KEY FEATURES

Rental Ready Features

- 24 hour dual wall tankbase
- Forklift pockets
- Fully certified single point lifting eye
- Integrated heavy duty drag bar with robust skid plate
- Coolant & oil drains piped to baseframe
- EMC certified
- Fully certified spark arresting silencer
- 50/60 Hz switchable frequency
- 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 Electronic governor
- On-engine aftertreatment consists of Diesel Oxidation Catalyst (DOC), and Diesel Particle Filter (DPF) for service-free operation

Single-Source Supplier

- Factory designed and fully prototype tested with certified torsion vibration analysis available
- ISO 9001:2015

DSE7320 Control Panel

- Fully featured power metering, protective relaying, and engine/generator control and monitoring
- Simple user friendly interface and navigation

Alternator

- Leroy Somer
- protection
  Self (SHUNT) excitation
- Coastal insulation

Enclosure

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

Reduced Environmental Impact

- EU V equivalent
- Dual wall base tank with 110% spill containment
- CE labelling
- Bund Level alarm
- Exceptional noise performance (Meets 93 dBA at 50Hz and 97 dBA at 60Hz)

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

FG Wilson Connect, Remote Asset Monitoring

- Fleet management and asset tracking*
  *Subject to local certifications.

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STANDARD EQUIPMENT

Air Inlet

- Aircleaner with dust cup and service indicator
- Turbocharger and air-to-air aftercooled

Alternator

- FGL20080 frame; 3-phase random wound, 4 lead, self excited, 2/3 pitch
- Coastalinsulation protection

Charging System

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

Control Panel

- Deep Sea 7320 genset mounted digital controller
- 50/60 Hz frequency switch (via terminal link)
- R150 and R180 AVR's
- Panel &enclosure mounted emergency stop

Cooling System

- Cooling package mounted radiator with vertical air discharge
- Pusher fan with guards
- Coolant drain line with internal brass ball control valve piped to base-frame
- Low coolant level shutdown
- 50% coolant antifreeze with corrosion inhibitor

Distribution System

- Single robust steel enclosure for controls & distribution Separately hinged distribution
- door with 12V DC shunt trip safety switch 4 pole, 125A main circuit breaker Two-wire
- remote start/stop terminals and AC aux power connection for rapid starting
-

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
- Enclosure is protected by powder coated white paint

Engine

- Perkins 904J-E36TAG3 heavy duty diesel engine
- Four-stroke diesel engine combines consistent performance and excellent fuel economy with minimum weight.
- ECM electronic engine control

Exhaust System

- Integrated certified spark arresting capability

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Fuel System

- 295L double wall fuel tank, internal fuel fill. 28 hour based on 75% prime rating
- Engine mounted primary fuel filter with integral water separator and Water in Fuel sensor
- Manual Push Button priming pump
- Auxiliary connections for customer supplied fuel transfer with 3 way fuel transfer system, internally mounted within the bunded area
- Mechanical fuel gauge
- Electronic Fuel gauge with control panel display. Low level fuel warning & shutdown
- Bundlevel sensor. Low level warning & high level warning / shutdown

Lube System

- On engine primary & secondary oil filters, filler and dipstick
- Open crankcase breather
- Oil drain piped to edge of baseframe with internally mounted ball valve
- 500 hour oilchange intervals

Mounting System

- Heavy-duty steel base frame with integral fuel tank (dual wall)
- Provides 110% spill containment including all on- board fluids
- Forklift pockets Heavy duty drag
- Points with skid plates
- Generator set soft mounted using captive vibration mounts

Starting System

- Single electric starting motor, 12V
- 12V900CCA maintenance free battery, with single pole battery isolator switch

General

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

AVAILABLE OPTIONS

- CE socket box with integrated MCB and RCBO protection
- 380-480V 3-phase 60 Hz configuration available with appropriately sized breaker and power cables.
- Anti-condensation heater 240V
- Coolant heater 220V
- 12V battery charger
- Permanent Magnet Generator (PMG)
- Earth Leakage Detection
- Lube oil sump pump

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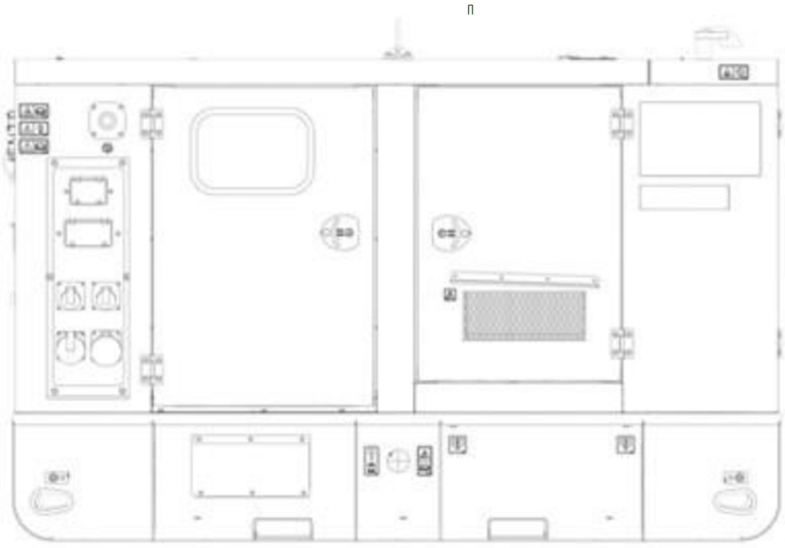
Power Ratings

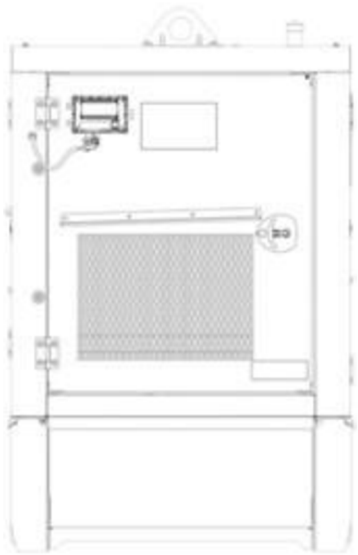
Frequency	Voltage	Prime kW (kVA)	Output Amps (A)	Breaker Rating (A)
50 Hz	415/240V	48 (60)	83	125
	400/230V	48 (60)	86	
60 Hz	480/277V	42.4 (53)	64	125
	440/254V	42.4 (53)	70	

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 - A (mm)	2646
Width - B (mm)	1142
Height - C (mm)	1775
Weight - Lube Oil & Coolant (kg)	1777
Weight - Lube Oil, Coolant & Fuel (kg)	2045

Sockets	15A	16A	32A	50A	63A	125A
CEEForm* (SBOX3)	–	2x1ph+N+E	1x3ph+N+E	–	1x3ph+N+E	
CEE Form (SBOX7)	-	1x1 ph+N+E	1x3ph+N+E	-	1x3ph+N+E	1x3ph+EN +

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PRO60-4 Technical Data

Generator Set Technical Data

	UNITS	50 Hz	60 Hz
Power rating Oil pan capacity Fuel	kW (kVA)	48 (60)	42.4 (53)
consumption	L	9	9
100% load			
75% load	L/hr	14.3	13.1
50% load		10.5	10.4
Fuel tank capacity (Fillable)		7.3	7.5
Fuel tank capacity (Usable)	L	317	317
Running time (75% load)	L	295	295
Ambient capability	Hrs	28.2	28.5
Engine & radiator coolant capacity	˚C	42	57
Engine coolant capacity	L	13.5	13.5
Combustion airflow	L	4.9	4.97
Exhaust flow at rated – dry	m3/min	3.3	3.8
exhaust	m^3/min	8.6	8.5
Exhaust temperature at rated kW	˚C	544	444
Noise rating Sound power* 1m at			
100% load		93	97
7m at 100% load	dB(A)	73.8	75.7
1m at 75% load		63.7	66.0
7m at 75% load		73.2	75.8
		63	65.9

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

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Perkins 904J Engine Data

Engine	Perkins 904J-E36TAG3
Bore – mm (in)	98 mm (3.85 in)
Stroke – mm (in)	120 mm (4.7 in)
Displacement – L (cu in)	3.6 L (219.6 in³)
Compression ratio	17:1
Engine RPM	1500 / 1800
Aspiration	Turbocharged, Aftercooled
Aftercooler type	ATAAC
Turbocharger	Single
Fuel system	Common Rail
Governor type	Electronic
Fuel	EU Stage V specifies Ultra-Low Suphur Diesel (USLD)

Alternator Data

Frame Size FGL20080 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 Voltage regulation Less than ± 1% Telephone Harmonic Factor (THF) Less than 2% Harmonic Distortion (THD) Less than 2%

* Materials and specifications are subject to change without notice.

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With headquarters in Northern Ireland, FG Wilson products are distributed through a Global Dealer Network. To contact your local Sales Office, please visit the FG Wilson website at www.fgwilson.com.

Inlinewith ourpolicy of continuous product development, we reserve the right to change specification without notice.

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