



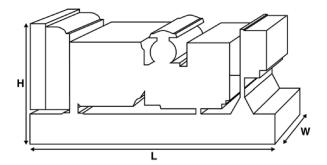
Output Ratings

| Voltage, Frequency | | Prime | Standby |
|--------------------|-----|-------|---------|
| 400/230V, 50 Hz | kVA | 800 | 900 |
| 400/2300, 30 HZ | kW | 640 | 720 |
| 400/2771/ 6011- | kVA | 844 | 938 |
| 480/277V, 60 Hz | kW | 675.2 | 750.4 |



Ratings at 0.8 power factor.

Please refer to the output ratings technical data section for specific generator set outputs per voltage.



| Dimensions and Weights | | | |
|------------------------|----|--------------|--|
| Length | mm | 4280 (168.5) | |
| Width | mm | 1731 (68.1) | |
| Height | mm | 2379 (93.7) | |
| Weight (Dry) | kg | 5875 (12952) | |
| Weight (Wet) | kg | 5995 (13217) | |

Ratings in accordance with ISO 8528, ISO 3046, IEC 60034, BS5000 and NEMA MG-1.22.

Generator set pictured may include optional accessories.

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.

Standby Rating

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The alternator on this model is peak continuous rated (as defined in ISO 8528-3).

Standard Reference Conditions

Note: Standard reference conditions 25°C (77°F) Air Inlet Temp, 100m (328 ft) A.S.L. 30% relative humidity. Fuel consumption data at full load with diesel fuel with specific gravity of 0.85 and conforming to BS2869: 1998, Class A2.

FG Wilson offer a range of optional features to allow you to tailor our generator sets to meet your power needs. Options available include:

- Upgrade to CE Certification
- A wide range of Sound Attenuated Enclosures
- A variety of generator set control and synchronising panels
- Additional alarms and shutdowns
- A selection of exhaust silencer noise levels

For further information on all of the standard and optional features accompanying this product please contact your local Dealer or visit:

www.fgwilson.com

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| Engine Make | | Perkins | | | |
|---------------------------|---------------------|---------------------------------------|--------------|--|--|
| Engine Model: | | 4006-23TAG3A | | | |
| Alternator Make | | Leroy Somer | | | |
| Alternator Model: | | LL7224L | | | |
| Control Panel: | | PowerWizard 1.1+ | | | |
| Base Frame: | | Heavy Duty Fabricated S | Steel | | |
| Circuit Breaker Type: | | 3 Pole ACB/MCCB | | | |
| Frequency: | | 50 HZ 60 HZ | | | |
| Engine Speed: RPM | rpm | 1500 | 1800 | | |
| Fuel Tank Capacity: | litres (US gal) | 1494 (394.67) | | | |
| Fuel Consumption Prim | e litres (US gal) | 171.2 (45.2) | 198.9 (52.5) | | |
| Fuel Consumption Stan | dby litres (US gal) | 193.4 (51.1) | 224.4 (59.3) | | |
| | | | | | |
| Engine Technical | Data | | | | |
| No. of Cylinders | | 6 | | | |
| Alignment | | IN LINE | | | |
| Cycle | | 4 STROKE | | | |
| Bore mm (in) | | 160 (6.3) | | | |
| Stroke | mm (in) | 190 (7.5) | | | |
| Induction | | TURBOCHARGED AIR TO AIR CHARGE COOLED | | | |
| Cooling Method | | WATER | | | |
| Governing Type | | ELECTRONIC | | | |
| Governing Class | | ISO 8528 | | | |
| Compression Ratio | | 13.6:1 | | | |
| Displacement | L (cu. in) | 22.9 (1398.7) | | | |
| Moment of Inertia: | kg m² (lb/in²) | 10.61 (36256) | | | |
| Voltage | | 24 | | | |
| Ground | | Negative | Negative | | |
| Battery Charger Amps | | 55 | | | |
| Engine Weight Dry | kg (lb) | 2524 (5564) | | | |
| Engine Weight Wet kg (lb) | | 2663 (5871) | | | |
| | | | | | |
| Engine Performance Data | | 50 Hz | 60 Hz | | |
| Engine Speed | rpm | 1500 | 1800 | | |
| Gross Engine Power Prin | ne kW (hp) | 705 (945) | 759 (1018) | | |
| Gross Engine Power Sta | ndby kW (hp) | 786 (1054) | 839 (1125) | | |
| BMEP Prime | kPa (psi) | 2461 (356.9) | 2208 (320.2) | | |
| BMEP Standby | kPa (psi) | 2743 (397.9) | 2440 (353.9) | | |



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| Fuel System | | | | | | |
|---------------------|------------------|--------------|------------------|--------------|--------------|--|
| Fuel Filter Type: | | | Replaceable Eler | ment | | |
| Recommended Fuel: | | | Class A2 Diesel | A2 Diesel | | |
| Fuel Consumption at | | 110 % Load | 100 % Load | 75 % Load | 50 % Load | |
| 50 Hz Prime: | l/hr (US gal/hr) | 193.4 (51.1) | 171.2 (45.2) | 129.7 (34.3) | 92 (24.3) | |
| 50 Hz Standby | l/hr (US gal/hr) | - | 193.4 (51.1) | 144.8 (38.3) | 101 (26.7) | |
| 60 Hz Prime | l/hr (US gal/hr) | 224.4 (59.3) | 198.9 (52.5) | 146.5 (38.7) | 100.8 (26.6) | |
| 60 Hz Standby | l/hr (US gal/hr) | - | 224.4 (59.3) | 163.3 (43.1) | 110.4 (29.2) | |

| Air System | | 50 Hz | 60 Hz |
|--|--------------|--------------|---------------------|
| Air Filter Type: | | | Replaceable Element |
| Combustion Air Flow Prime r | m³/min (cfm) | 69 (2437) | 76 (2684) |
| Combustion Air Flow Standby r | m³/min (cfm) | 73 (2578) | 78 (2755) |
| Max. Combustion Air Intake Restriction | (Pa | 3.7 (14.9) | 3.7 (14.9) |
| | | | |
| Cooling System | | 50 Hz | 60 Hz |
| Cooling System Capacity | l (US gal) | 106 (28) | 106 (28) |
| Water Pump Type: | | | Centrifugal |
| Heat Rejected to Water & Lube Oil: Prime | kW (Btu/min) | 280 (15923) | 309 (17573) |
| Heat Rejected to Water & Lube Oil: Standby | kW (Btu/min) | 310 (17629) | 330 (18767) |
| Heat Radiation to Room*: Prime | kW (Btu/min) | 105.1 (5977) | 118 (6711) |
| Heat Radiation to Room*: Standby | kW (Btu/min) | 118.5 (6739) | 132 (5160) |
| Radiator Fan Load: | kW (hp) | 29.9 (40.1) | 44 (59) |
| Radiator Cooling Airflow: | m³/min (cfm) | 978 (34538) | 1248 (44073) |
| External Restriction to Cooling Airflow: | Pa (in H2O) | 250 (1) | 250 (1) |

*: Heat radiated from engine and alternator

Designed to operate in ambient conditions up to 50°C (122°F).

Contact your local FG Wilson Dealer for power ratings at specific site conditions.

| Lubrication System | | | |
|--------------------------------|------------------|------------|--------------------|
| Oil Filter Type: | | | Spin-On, Full Flow |
| Total Oil Capacity: I (US | gal) | | 123 (32.5) |
| Oil Pan Capacity: I (US | gal) | | 113.4 (30) |
| Oil Type: | | | API CG4 15W-40 |
| Oil Cooling Method: | | | WATER |
| | | | |
| Exhaust System | | 50 Hz | 60 Hz |
| Maximum Allowable Back Press | ure: kPa (in Hg) | 6.98 (2.1) | 6.98 (2.1) |
| Exhaust Gas Flow: Prime | m³/min (cfm) | 193 (6816) | 209 (7381) |
| Exhaust Gas Flow: Standby | m³/min (cfm) | 193 (6816) | 209 (7381) |
| Exhaust Gas Temperature: Prime | °C (°F) | 500 (932) | 500 (932) |
| Exhaust Gas Temperature: Stand | lby °C (°F) | 500 (932) | 500 (932) |



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UKAS

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| Fuel System | | | | | | |
|---------------------|------------------|--------------|------------------|--------------|--------------|--|
| Fuel Filter Type: | | | Replaceable Eler | ment | | |
| Recommended Fuel: | | | Class A2 Diesel | A2 Diesel | | |
| Fuel Consumption at | | 110 % Load | 100 % Load | 75 % Load | 50 % Load | |
| 50 Hz Prime: | l/hr (US gal/hr) | 193.4 (51.1) | 171.2 (45.2) | 129.7 (34.3) | 92 (24.3) | |
| 50 Hz Standby | l/hr (US gal/hr) | - | 193.4 (51.1) | 144.8 (38.3) | 101 (26.7) | |
| 60 Hz Prime | l/hr (US gal/hr) | 224.4 (59.3) | 198.9 (52.5) | 146.5 (38.7) | 100.8 (26.6) | |
| 60 Hz Standby | l/hr (US gal/hr) | - | 224.4 (59.3) | 163.3 (43.1) | 110.4 (29.2) | |

| Air System | | 50 Hz | 60 Hz |
|--|--------------|--------------|---------------------|
| Air Filter Type: | | | Replaceable Element |
| Combustion Air Flow Prime r | n³/min (cfm) | 69 (2437) | 76 (2684) |
| Combustion Air Flow Standby r | n³/min (cfm) | 73 (2578) | 78 (2755) |
| Max. Combustion Air Intake Restriction | Pa | 3.7 (14.9) | 3.7 (14.9) |
| | | | |
| Cooling System | | 50 Hz | 60 Hz |
| Cooling System Capacity | l (US gal) | 106 (28) | 106 (28) |
| Water Pump Type: | | | Centrifugal |
| Heat Rejected to Water & Lube Oil: Prime | kW (Btu/min) | 280 (15923) | 309 (17573) |
| Heat Rejected to Water & Lube Oil: Standby | kW (Btu/min) | 310 (17629) | 330 (18767) |
| Heat Radiation to Room*: Prime | kW (Btu/min) | 105.1 (5977) | 118 (6711) |
| Heat Radiation to Room*: Standby | kW (Btu/min) | 118.5 (6739) | 132 (5160) |
| Radiator Fan Load: | kW (hp) | 29.9 (40.1) | 44 (59) |
| Radiator Cooling Airflow: | m³/min (cfm) | 978 (34538) | 1248 (44073) |
| External Restriction to Cooling Airflow: | Pa (in H2O) | 250 (1) | 250 (1) |

*: Heat radiated from engine and alternator

Designed to operate in ambient conditions up to 50°C (122°F).

Contact your local FG Wilson Dealer for power ratings at specific site conditions.

| Lubrication System | | | |
|--------------------------------|------------------|------------|--------------------|
| Oil Filter Type: | | | Spin-On, Full Flow |
| Total Oil Capacity: I (US | gal) | | 123 (32.5) |
| Oil Pan Capacity: I (US | gal) | | 113.4 (30) |
| Oil Type: | | | API CG4 15W-40 |
| Oil Cooling Method: | | | WATER |
| | | | |
| Exhaust System | | 50 Hz | 60 Hz |
| Maximum Allowable Back Press | ure: kPa (in Hg) | 6.98 (2.1) | 6.98 (2.1) |
| Exhaust Gas Flow: Prime | m³/min (cfm) | 193 (6816) | 209 (7381) |
| Exhaust Gas Flow: Standby | m³/min (cfm) | 193 (6816) | 209 (7381) |
| Exhaust Gas Temperature: Prime | e °C (°F) | 500 (932) | 500 (932) |
| Exhaust Gas Temperature: Stand | dby °C (°F) | 500 (932) | 500 (932) |



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| Alternator Physical No. of Bearings: | | | | | 1 | | |
|---|---------|--------------|-----------|-----------|-------------|-----------|--|
| Insulation Class: | | | | | H | | |
| Winding Pitch: | | | | | 2/3 | | |
| Winding Code | | | | | 6S | | |
| Wires: | | | | | 6 | | |
| Ingress Protection Rating: | | | | | IP23 | | |
| Excitation System: | | | | | AREP | | |
| AVR Model: | | | | | R450M | | |
| | | | | | | | |
| Alternator Operatin | ng Data | | | | | | |
| Overspeed: rpm | | | | | 2250 | | |
| Voltage Regulation: (Steady | state) | | | | +/- 0.5 | | |
| Wave Form NEMA = TIF: | | | | | 50 | | |
| Wave Form IEC = THF: | | | | | 2 | | |
| Total Harmonic content LL/L | _N: | | | | 4 | | |
| Radio Interference: | | | | | EN61000-6 | | |
| Radiant Heat: 50 Hz | | kW (Btu/min) | | | 39.5 (2246) | | |
| Radiant Heat: 60 Hz | | kW (Btu/min) | | 42 (2388) | | | |
| Alternator Performa | ance Da | ta 50 Hz: | 415/2401/ | 400/2201/ | 200/2201/ | | |
| Voltage Code | | | 415/240 V | 400/230 V | 380/220 V | | |
| Motor Starting Capability* | kVA | | 2268 | 2117 | 1924 | | |
| Short Circuit Capacity | % | | 300 | 300 | 300 | 300 | |
| Reactances | Xd | | 3.09 | 3.32 | 3.68 | 500 | |
| neuerances | X'd | | 0.15 | 0.162 | 0.18 | | |
| | X"d | | 0.13 | 0.13 | 0.114 | | |
| | A.G. | | 0.15 | 0.15 | 0.114 | | |
| Alternator Performa | ance Da | ta 60 Hz | | | | | |
| | | 480/277 V | 380/220 V | | | 440/254 V | |
| Voltage Code | | | | | | | |
| Motor Starting Capability* | kVA | 2507 | 1620 | | | 2134 | |
| Short Circuit Capacity | % | 300 | 300 | 300 | 300 | 300 | |
| Reactances | Xd | 2.921 | 4.61 | | | 3.476 | |
| | X′d | 0.143 | 0.225 | | | 0.17 | |
| | | 0.114 | 0.18 | | | | |



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