

Welland



THE QUEEN'S AWARDS
FOR ENTERPRISE:
INTERNATIONAL TRADE
2018



WP9

WP13

WP15

WP20



UK Made Diesel
Generators

50 Hz

With Perkins
Engines

 **Perkins®**

Diesel Power

STAMFORD

**Your Power.
Our Passion.**

Generator Power Summary

| | PRP kW | PRP kVA | ESP kW | ESP kVA |
|------|-----------|------------|-----------|------------|
| WP9 | 6.8 | 8.5 | 7.5 | 9.4 |
| WP13 | 10.0 | 12.5 | 11.1 | 13.8 |
| WP15 | 11.5 | 14.4 | 12.7 | 15.8 |
| WP20 | 15.7 | 19.6 | 17.3 | 21.6 |

Ratings based on NTP conditions 3 phase, 400V, 1500RPM, 50Hz, 0.8 Power Factor

Engine Overview

| | WP9 | WP13 | WP15 | WP20 |
|---------------------------------|----------------|----------------|----------------|----------------|
| ENGINE MANUFACTURER | PERKINS | PERKINS | PERKINS | PERKINS |
| MODEL | 403A-11G1 | 403A-15G1 | 403A-15G2 | 404A-22G |
| ENGINE ORIGIN | UK | UK | UK | UK |
| ASPIRATION | NATURALLY ASP. | NATURALLY ASP. | NATURALLY ASP. | NATURALLY ASP. |
| GOVERNOR TYPE | MECHANICAL | MECHANICAL | MECHANICAL | MECHANICAL |
| NO. OF CYLINDERS | 3 | 3 | 3 | 4 |
| DISPLACEMENT | 1.131 | 1.496 | 1.496 | 2.216 |
| BORE | 77mm | 84mm | 84mm | 84mm |
| STROKE | 81mm | 90mm | 90mm | 100mm |
| COOLING TYPE | LIQUID COOLED | LIQUID COOLED | LIQUID COOLED | LIQUID COOLED |
| COOLANT CAPACITY (L) | 5.2 | 6.0 | 6.0 | 7.0 |
| OIL CAPACITY (L) | 4.9 | 6.0 | 6.0 | 10.6 |
| MAX. EXHAUST OUTLET TEMPERATURE | 420 | 490 | 580 | 505 |

FUEL CONSUMPTION L/HR

| | | | | |
|-----------|------|------|------|------|
| 50% LOAD | 1.50 | 2.04 | 2.24 | 2.90 |
| 75% LOAD | 2.00 | 2.79 | 3.11 | 4.00 |
| 100% LOAD | 2.60 | 3.67 | 4.30 | 5.30 |
| 110% LOAD | 2.90 | 4.08 | 5.04 | 6.10 |

ESP - STANDBY POWER - The maximum power available during a variable power sequence in which a Welland Power Diesel Generator is capable of delivering in the event of power outages or under test conditions.

PRP - PRIME POWER - The maximum power that the Welland Power Diesel Generator will be able to deliver continuously. Average load should be circa 70%. The generator can have 10% overload for 1 hour per 12 hours.

Alternator Overview

| | WP9 | WP13 | WP15 | WP20 |
|----------------------------------|--------------|--------------|--------------|--------------|
| ALTERNATOR MANUFACTURER | STAMFORD | STAMFORD | STAMFORD | STAMFORD |
| MODEL | S0L1-H1 | S0L1-P1 | S0L1-P1 | S0L2-G1 |
| PHASES | 3 | 3 | 3 | 3 |
| BEARINGS | SINGLE | SINGLE | SINGLE | SINGLE |
| POLES | 4 | 4 | 4 | 4 |
| LEADS | 12 | 12 | 12 | 12 |
| AVR MODEL | AS540 | AS540 | AS540 | AS540 |
| VOLTAGE REGULATION | ± 1% | ± 1% | ± 1% | ± 1% |
| INSULATION CLASS | H | H | H | H |
| EXCITATION | SELF EXCITED | SELF EXCITED | SELF EXCITED | SELF EXCITED |
| CONNECTION TYPE | SERIES STAR | SERIES STAR | SERIES STAR | SERIES STAR |
| TOTAL HARMONIC CONTENT (NO LOAD) | <2% | <2.5% | <2.5% | <2.5% |
| EFFICIENCY | 81.0 | 83.2 | 83.2 | 85.3 |
| SHORT CIRCUIT CAPACITY | >300% | >300% | >300% | >300% |
| REACTANCES X _d | 2.060 | 2.090 | 2.090 | 2.623 |
| REACTANCES X' _d | 0.135 | 0.117 | 0.117 | 0.139 |
| REACTANCES X'' _d | 0.116 | 0.108 | 0.108 | 0.136 |

Welland Power standard specification includes alternators from stock that are randomly allocated based on the physical specifications required. Specific reference can be made to non-physical attributes such as country of origin, date of manufacture, warranty length and or other attributes that may be important to you or your customer at point of order and these requests may incur mandatory additional costs in line with our cost of providing these attributes.

Alternative Alternator Options

| | WP9 | WP13 | WP15 | WP20 |
|----------|------------|------------|------------|-----------|
| MECCALTE | ECP3-2LN/4 | ECP3-3LN/4 | ECP3-3LN/4 | ECP28-M4C |

Control Panel Overview



**DEEP SEA
ELECTRONICS**

All standard Welland Power Diesel Generators come complete with a Deep Sea Electronics DSE7320 MKII Auto Mains Failure Control Module.

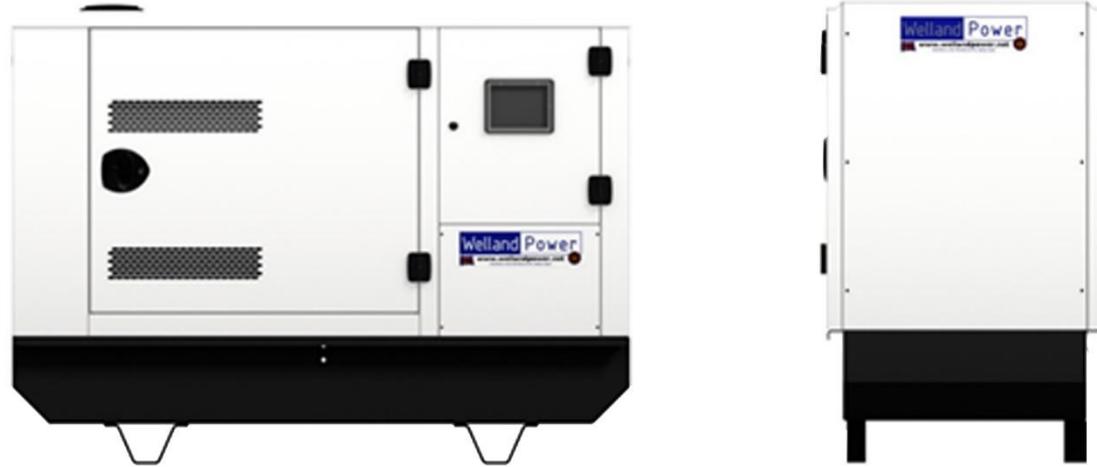
The UK made DSE7320 MKII Control Module gives outstanding monitoring and is loaded with features.

The modules can be easily configured using the DSE Configuration Suite PC software.

| | STANDARD | AVAILABLE | ADDITIONAL EQUIPMENT REQUIRED |
|---|----------|-----------|--------------------------------|
| LOW OIL SHUTDOWN | • | | |
| HIGH ENGINE TEMPERATURE SHUTDOWN | • | | |
| UNDER VOLTAGE WARNING / SHUTDOWN | • | | |
| OVER SPEED / OVER FREQUENCY WARNING / SHUTDOWN | • | | |
| UNDER SPEED / OVER FREQUENCY WARNING / SHUTDOWN | • | | |
| OVER CRANK / FAIL TO START ALARMS | • | | |
| OVER CURRENT ALARMS | • | | |
| THREE PHASE VOLTAGE MONITORING | • | | |
| START, CRANK, CRANK REST, WARM UP TIMERS | • | | |
| RETURN AND COOL DOWN TIMERS | • | | |
| BATTERY UNDER/OVER VOLTAGE ALARMS | • | | |
| 4 LINE BACK LIT LCD TEXT DISPLAY | • | | |
| FIVE KEY MENU NAVIGATION | • | | |
| CUSTOMISABLE STATUS SCREENS | • | | |
| POWER SAVE MODE | • | | |
| SUPPORT FOR UP TO 3 REMOTE DISPLAY UNITS | • | | |
| CONFIGURABLE TIMERS AND ALARMS | • | | |
| RECORDED EVENT LOG (250 OCCURENCES) | • | | |
| CAN AND MAGNETIC PICK UP / ALT SENSING | | • | MAGNETIC PICK UP / ECU |
| FUEL USAGE MONITORING AND LOW FUEL ALARM | | • | FUEL TANK SWITCH / SENDER |
| MANUAL FUEL PUMP CONTROL | | • | FUEL PUMP |
| ENGINE EXERCISER | • | | |
| PROTECTIONS DISABLED FEATURE | • | | |
| kW AND kV PROTECTION | • | | |
| REVERSE POWER PROTECTION | • | | |
| POWER MONITORING (kW h, kV Ar, kV A h, kV Ar h) | • | | |
| LOAD SWITCHING | | • | ATS WITH AUTOMATIC BREAKER |
| AUTOMATIC LOAD TRANSFER | | • | ATS |
| UNBALANCED LOAD PROTECTION | • | | |
| INDEPENDENT FAULT EARTH TRIP | | • | EARTH CT |
| USB CONNECTIVITY | • | | |
| FULLY CONFIGURABLE VIA DSE CONFIG SUITE | • | | |
| RS232 AND RS485 COMMUNICATIONS | | • | COMPATIBLE HARDWARE / SOFTWARE |
| CONFIGURABLE GENCOMM PAGES | • | | |
| ADVANCED SMS MESSAGING AND START/STOP | | • | 4G GATEWAY MODULE |
| ETHERNET COMMUNICATIONS | | • | DSE 855 MODULE |
| MODBUS INTEGRATION | | • | COMPATIBLE HARDWARE / SOFTWARE |

Weight, Dimensions and Canopy Specifications

- All Welland Power bases and canopy panels are made in the UK in the Welland Power factory.
- Easily moved via forklift.
- Integrated silencer built into the base.
- Built in fuel tank with large 75L capacity.
- Designed to be able to be double stacked in a 40' High Cubed container, so to maximise freight.
- Bases are constructed from 4mm Mild Steel, finished with a textured black powder coat (RAL9005).
- Designed for air flow suitable for tropical climates with Tropical Radiator as standard.
- Canopy panels are made from 2mm zinc coated mild steel and finished with a clean white powder coat finish (RAL9910).
- Fully lockable canopy.
- Security bolts to prevent unauthorised access.
- Emergency Stop button as standard.
- High quality adjustable handles.
- Large removable doors for excellent access.
- Black zinc die cast hinges on doors, tested and proven to withstand extremely corrosive conditions.



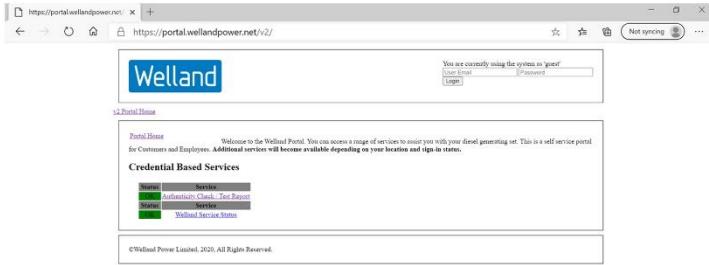
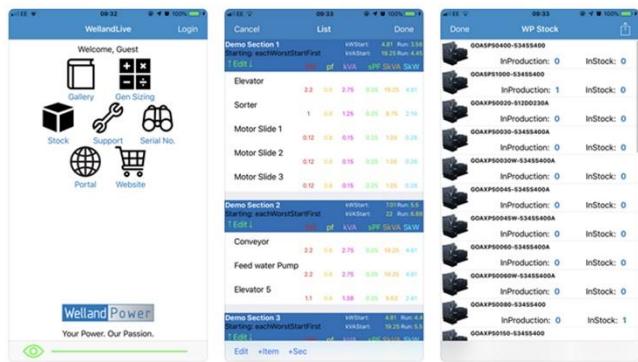
| | FUEL TANK SIZE (L) | LENGTH mm | WIDTH mm | HEIGHT mm | WEIGHT kg |
|-------|-----------------------|--------------|-------------|--------------|--------------|
| WP9 | 75 | 1200 | 758 | 1235 | 409 |
| WP13 | 75 | 1200 | 758 | 1235 | 428 |
| WP15 | 75 | 1200 | 758 | 1235 | 428 |
| WP20 | 75 | 1490 | 758 | 1235 | 468 |
| <hr/> | | | | | |
| WP9 | 75 | 1680 | 758 | 1235 | 458 |
| WP13 | 75 | 1680 | 758 | 1235 | 458 |
| WP15 | 75 | 1680 | 758 | 1235 | 458 |
| WP20 | 75 | 1680 | 758 | 1235 | 588 |

SOUND PRESSURE LEVELS dB

| | 15m | 7m | 1m |
|------|------|------|------|
| WP9 | 60.9 | 65.7 | 75.5 |
| WP13 | 62.3 | 68.7 | 78.2 |
| WP15 | 62.3 | 68.7 | 78.2 |
| WP20 | 62.6 | 69.2 | 78.5 |

Useful Information

When purchasing your diesel generator, it is crucial to size it correctly. For prime applications average load applied should be in the region of 70% load. To assist in sizing your required generator, please use our Generator Sizing Tool available on most compatible smart devices. Other key features of the application include support links, stock updates and portal features.



The Wellland Power Portal <http://portal.wellandpower.net/> is easily accessible and gives you and your customers instant access to a variety of information including the test certificates for each Welland Power Diesel Generator through input of the unique generator serial number or QR code search on the set.

All Wellland Power Diesel Generators are easily identifiable by their unique laser engraved metal generator plates. The Generator Name Plates show the generator ratings and contain full details about the Engine and Alternator, including manufacturer, model numbers, serial numbers and country of origin. Each generator has a unique generator serial number that can be input at the Wellland Power portal for support, or a QR Code that automatically opens to the correct webpage when scanned with any smart phone.



THE QUEEN'S AWARDS
FOR ENTERPRISE:
INTERNATIONAL TRADE
2018

We are very proud to be current holders of:

The Queens Award For Enterprise: International Trade.

All Wellland Power sets come complete with Wellland Power branded sticker kits applied as well as HRH The Queen's Official Logo.

Wellland Power were formally presented with the Award at the Wellland Power Factory by the Her Majesty The Queen's representative Lord Lieutenant Toby Dennis.

Previously Managing Director Charlie Farrow has met with his Royal Highness Prince Charles of Wales to receive the Queens Award following recommendations by Teresa May, who was the UK Prime Minister at the time.

The Award was presented to acknowledge the success and growth of the company over the last few years.

Alternator Overview

| | WP9 | WP13 | WP15 | WP20 |
|-----------------------------|------------|------------|------------|------------|
| DSE BATTERY CHARGER | STANDARD* | STANDARD* | STANDARD* | STANDARD* |
| TROPICAL RADIATOR | STANDARD | STANDARD | STANDARD | STANDARD |
| FIRST FILL (OIL & COOLANT) | STANDARD** | STANDARD** | STANDARD** | STANDARD** |
| DSE7320 MKII CONTROL MODULE | STANDARD | STANDARD | STANDARD | STANDARD |
| SINGLE SKIN BASE TANK | STANDARD | STANDARD | STANDARD | STANDARD |
| BUNDED BASE TANK | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL |
| GLOW PLUGS | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL |
| ENGINE COOLANT HEATER | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL |
| LOW WATER LEVEL SWITCH | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL |
| CE UPGRADE | N/A | N/A | N/A | N/A |
| ELECTRONIC GOVERNOR | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL |
| SUMP DRAIN KIT | STANDARD | STANDARD | STANDARD | STANDARD |
| SUMP DRAIN PUMP | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL |
| 430 STAINLESS CANOPY | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL |
| ANTI CONDENSATION HEATER | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL |
| THERMISTORS | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL |
| PMG UPGRADE | N/A | N/A | N/A | N/A |
| DROOP CT | N/A | N/A | N/A | N/A |
| CIRCUIT BREAKER | LPE 25A | LPE 25A | LPE 25A | LPE 32A |

* Welland Power Open Specifications do not include a DSE Battery Charger. These can be added as an optional extra.

** Welland Power Open Specifications do not include first fill as standard. First fill can be provided upon request.

Contact Us



Welland Power Diesel Generators are manufactured in the UK, factories located at Unit 2, 5 & 6 Welland Business Park, Clay Lake, Spalding, Lincolnshire, PE126BL



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Welland Power Diesel Generators



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