

Welland



WP30

WP45

WP60

WP65

WP80

WP100C

**UK Made Diesel
Generators**

50 Hz

**With Perkins
Engines**



Perkins®

Diesel Power

STAMFORD®

**Your Power.
Our Passion.**

Generator Power Summary				
RATINGS BASED ON NTP CONDITIONS: 400V, 50Hz, 1500RPM, 3 PHASE, 0.8pf				
	PRIME POWER		STANDBY POWER	
	PRP kVA	PRP kW	ESP kVA	ESP kW
WP30	30.0	24.0	33.0	26.4
WP45	45.0	36.0	49.5	39.6
WP60	60.5	48.4	66.6	53.3
WP65	65.6	52.5	72.3	57.8
WP80	81.1	64.9	89.2	71.3
WP100C	100.0	84.0	110.0	88.0

PRIME POWER (PRP): THIS RATING IS THE MAXIMUM POWER THAT A WELLAND POWER DIESEL GENERATOR CAN DELIVER CONTINUOUSLY FOR AN UNLIMITED NUMBER OF HOURS PER YEAR IN A VARIABLE LOAD APPLICATION. A 10% OVERLOAD IS PERMITTED FOR 1 HOUR IN EVERY 12 HOURS OPERATION.

STANDBY POWER (ESP): THIS RATING IS THE MAXIMUM POWER THAT A WELLAND POWER DIESEL GENERATOR CAN DELIVER IN THE EVENT OF A POWER OUTAGE FOR UP TO 500 HOURS PER YEAR, WITH AN AVERAGE LOAD FACTOR OF 80% OF THE PUBLISHED STANDBY RATING. NO OVERLOAD IS AVAILABLE.

Engine Overview						
	WP30	WP45	WP60	WP65	WP80	WP100C
ENGINE MANUFACTURER	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS
MODEL	1103A-33G	1103A-33TG1	1103A-33TG2	1104A-44TG1	1104A-44TG2	1104C-44TAG2
ENGINE ORIGIN	UK	UK	UK	UK	UK	UK
ASPIRATION TYPE	NATURALLY ASPIRATED	TURBO CHARGED	TURBO CHARGED	TURBO CHARGED	TURBO CHARGED	TURBO CHARGED
GOVERNOR TYPE	MECHANICAL	MECHANICAL	MECHANICAL	MECHANICAL	MECHANICAL	ELECTRONIC
NO. OF CYLINDERS	3	3	3	4	4	4
DISPLACEMENT	3.3	3.3	3.3	4.4	4.4	4.4
BORE	105mm	105mm	105mm	105mm	105mm	105mm
STROKE	127mm	127mm	127mm	127mm	127mm	127mm
COOLING TYPE	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
COOLANT CAPACITY (L)	10.2	10.2	10.2	13.0	13.0	12.6
OIL CAPACITY (L)	8.3	8.3	8.3	8.0	8.0	8.0
MAX. EXHAUST OUTLET TEMPERATURE	530 °C	551 °C	564 °C	550 °C	550 °C	574 °C
FUEL CONSUMPTION L/HR						
50% LOAD	4.06	4.06	7.56	8.00	9.70	11.80
75% LOAD	5.61	5.61	10.80	11.20	14.00	17.10
100% LOAD	7.20	7.20	14.60	14.80	18.70	22.60
110% LOAD	8.10	8.10	15.90	16.50	20.50	24.90

Alternator Overview							
ALTERNATOR MANUFACTURER	WP30	WP45	WP60	WP65	WP80	WP100C	
	STAMFORD	STAMFORD	STAMFORD	STAMFORD	STAMFORD	STAMFORD	
	MODEL	S0L2-P1	S1L2-N1	S1L2-Y1	UCI 224F	UCI 224G	UCI 274C
	PHASES	3	3	3	3	3	3
	BEARINGS	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE
	POLES	4	4	4	4	4	4
	LEADS	12	12	12	12	12	12
	AVR MODEL	AS540	AS540	AS540	SX460	SX460	SX460
	VOLTAGE REGULATION	± 1%	± 1%	± 1%	± 1%	± 1%	± 1%
	INSULATION CLASS	H	H	H	H	H	H
	EXCITATION	SELF EXCITED	SELF EXCITED	SELF EXCITED	SELF EXCITED	SELF EXCITED	SELF EXCITED
	CONNECTION TYPE	SERIES STAR	SERIES STAR	SERIES STAR	SERIES STAR	SERIES STAR	SERIES STAR
	TOTAL HARMONIC CONTENT (NO LOAD)	<2.5%	<2.0%	<2.0%	<1.5%	<1.5%	<1.5%
	EFFICIENCY	87.0%	88.6%	89.9%	89.9%	90.2%	90.3%
	SHORT CIRCUIT CAPACITY	>300%	>300%	>300%	>300%	>300%	>300%
	REACTANCES X _d	2.291	1.959	1.994	2.070	2.200	2.210
	REACTANCES X' _d	0.150	0.118	0.113	0.160	0.170	0.180
	REACTANCES X'' _d	0.126	0.129	0.108	0.110	0.120	0.130

WELLAND POWER STANDARD SPECIFICATIONS INCLUDE 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						
	WP30	WP45	WP60	WP65	WP80	WP100C
MECCALTE	ECP28-VL4C	ECP32-2S4C	ECP32-2M4C	ECP32-1L4C	ECP32-2L4C	ECP34-2S4C
LEROY SOMER	TAL042C	TAL042F	TAL042H	TAL044A	TAL044B	TAL044D

Control Panel Overview



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 GENNCOMM 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 canopies are designed and fabricated at the Welland Power Factory located in Spalding, UK.
- Integrated fork lift pockets allows the generator to be moved easily and placed on site.
- Integrated silencer built into the generator base.
- Large 260 litre pressure tested steel fuel tank.
- Compact design to maximise the number of units that can be shipped in a container.
- Bases are constructed from 4mm Mild Steel, finished with a textured black powder coat (RAL9005).
- Designed for tropical climates to ensure sufficient air flow for high ambient temperatures with a 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 ergonomically designed adjustable handles.
- Large removable doors with rubber door latches for excellent maintenance access.
- Black zinc die cast hinges on doors, tested and proven to withstand extremely corrosive conditions.
- External access to radiator filler intake.



		FUEL TANK SIZE (L)	LENGTH mm	WIDTH mm	HEIGHT mm	WEIGHT kg
OPEN FRAME SPECIFICATION	WP30	75	1500	702	1383	721
	WP45	125	1700	702	1388	776
	WP60	125	1700	702	1388	797
	WP65	125	1783	702	1368	899
	WP80	200	1880	682	1372	945
	WP100C	200	1880	709	1397	1069
CANOPIED SPECIFICATION	WP30	260	2298	1104	1600	1024
	WP45	260	2298	1104	1600	1092
	WP60	260	2298	1104	1600	1111
	WP65	260	2298	1104	1600	1276
	WP80	260	2298	1104	1600	1337
	WP100C	260	2298	1104	1600	1417

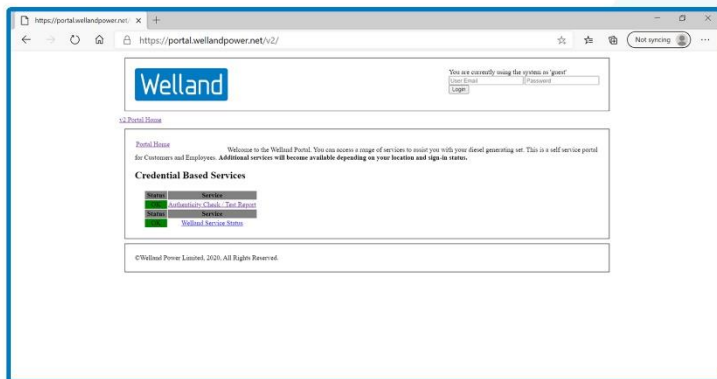
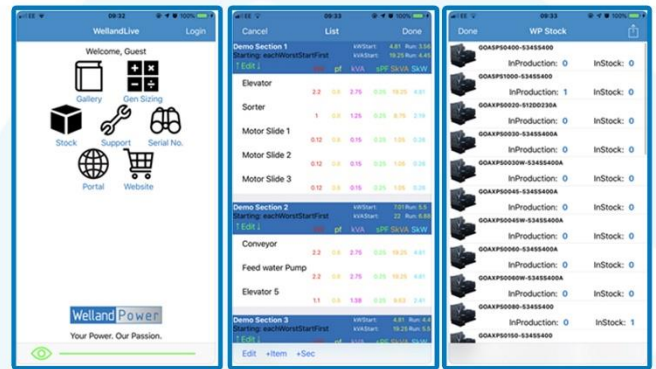
SOUND PRESSURE LEVELS dB			
	15m	7m	1m
WP30	64.8	70.9	81.9
WP45	64.5	70.6	82.5
WP60	65.0	71.1	82.5
WP65	65.1	71.1	82.1
WP80	65.3	71.4	82.3
WP100C	68.2	74.1	85.0

Useful Information

WHEN PURCHASING YOUR DIESEL GENERATOR, IT IS CRUCIAL TO SIZE IT CORRECTLY.

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 WELLAND POWER PORTAL LOCATED AT

[HTTP://PORTAL.WELLANDPOWER.NET/](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 WELLAND 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 WELLAND POWER PORTAL FOR SUPPORT, OR A QR CODE THAT AUTOMATICALLY OPENS TO THE CORRECT WEBPAGE WHEN SCANNED WITH ANY SMART PHONE.



WE ARE VERY PROUD TO BE CURRENT HOLDERS OF:

THE QUEENS AWARD FOR ENTERPRISE: INTERNATIONAL TRADE.

ALL WELLAND POWER SETS COME COMPLETE WITH WELLAND POWER BRANDED STICKER KITS APPLIED AS WELL AS HRH THE QUEEN'S OFFICIAL LOGO.

WELLAND POWER WERE FORMALLY PRESENTED WITH THE AWARD AT THE WELLAND 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.

Standard Specification

	WP30	WP45	WP60	WP65	WP80	WP100C
DSE BATTERY CHARGER	STANDARD*	STANDARD*	STANDARD*	STANDARD*	STANDARD*	STANDARD*
DRY CHARGED BATTERY	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD
TROPICAL RADIATOR	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD
FIRST FILL (OIL & COOLANT)	STANDARD**	STANDARD**	STANDARD**	STANDARD**	STANDARD**	STANDARD**
DSE7320 MKII CONTROL MODULE	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD
SINGLE SKIN BASE TANK	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD
BUNDED BASE TANK	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
GLOW PLUGS	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
ENGINE COOLANT HEATER	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
LOW COOLANT LEVEL SWITCH	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
CE UPGRADE	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
ELECTRONIC GOVERNOR	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	STANDARD
LOW LEVEL TANK ALARM	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
SUMP DRAIN KIT	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD
SUMP DRAIN PUMP	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
430 STAINLESS CANOPY	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
316 STAINLESS STEEL CANOPY	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
ANTI CONDENSATION HEATER	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
THERMISTORS	N/A	N/A	N/A	OPTIONAL	OPTIONAL	OPTIONAL
PMG UPGRADE	N/A	N/A	N/A	OPTIONAL	OPTIONAL	OPTIONAL
DROOP CT	N/A	N/A	N/A	OPTIONAL	OPTIONAL	OPTIONAL
3 POLE CIRCUIT BREAKER	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD
4 POLE CIRCUIT BREAKER	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
AUTOMATIC TRANSFER SWITCH	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL

* WELLAND POWER OPEN GENSET 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



+44 (0) 1775 888 888



Welland Power Diesel Generators



sales@wellandpower.net



for more information please visit our website at www.wellandpower.net

