

MODEL P81-BWP

89 kVA
ESP

71 kW
ESP

81 kVA
PRP

65 kW
PRP

50 HZ | PRIME & STANDBY POWER



DIESEL ENGINE

ENGINE BRAND	Perkins
ENGINE MODEL	1104A-44TG2
ASPIRATION	Turbocharged
GOVERNOR	Mechanical

ALTERNATOR

BRAND	Stamford
MODEL	UCI224G1
EXCITATION	Self Excited
INSULATION CLASS	H
VOLTAGE REGULATION	1%
SPACE HEATER	Optional

GENERATOR SET - KEY PARAMETERS

GENSET MODEL	P81-BWP
POWER PRP	81 kVA / 65 kW
POWER ESP	89 kVA / 71 kW
FREQUENCY / SPEED	50 Hz / 1500 RPM
OUTPUT VOLTAGE	400 / 230 V
WIRING METHOD	3-phase, 4-wire
POWER FACTOR	0.8 pf lagging
ENCLOSURE / NOISE	Canopied; 76 dB(A) @ 7 m

AUXILIARY SYSTEMS

CONTROL MODULE	Deep Sea DSE 7320 MKII
COOLING RADIATOR	Tropical, 50 C ambient
FULL-LOAD CURRENT	128.5 A at ESP
CIRCUIT BREAKER	Optional; sized to generator rating
COOLANT HEATER	Optional
STARTING BATTERY	Wet battery, maintenance-free
FUEL TANK	210 litres
BASE FRAME	Base tank + AVM + battery holder



Acoustic Vents



Premium DSE Controller



Easy Maintenance

STANDARD SUPPLY

INSTALLATION ACCESSORIES	AVMs, exhaust connection, silencer, standard connection parts and tool kit.
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SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

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ENGINE TECHNICAL PARAMETERS - PERKINS 1104A-44TG2 - DIESEL

STRUCTURAL FORM	4 Stroke	COMBUSTION SYSTEM	Direct Injection
NUMBER OF CYLINDERS	4 (In Line)	OIL CAPACITY	8.0L
DISPLACEMENT	4.4L	COOLANT CAPACITY	13.0L
BORE / STROKE	105mm / 127mm	MAX EXHAUST TEMP.	580 °C
COMPRESSION RATIO	17.25:1	EU EMISSIONS	None
ASPIRATION	Turbocharged		
GOVERNOR	Mechanical		
COOLING METHOD	Liquid Cooled		
SPEED	1500 RPM		

FUEL CONSUMPTION

50% Load 9.70 litres/hour	75% Load 14.00 litres/hour	100% Load 18.70 litres/hour	110% Load 20.50 litres/hour
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ALTERNATOR TECHNICAL PARAMETERS - STAMFORD UCI224G1

RATED POWER AT 400 V	ESP 90.8 kVA / PRP 85.0 kVA
NUMBER OF POLES / LEADS	4 / 12
WINDING NUMBER	311
BEARING TYPE	1 bearing
PROTECTION CLASS	IP23
INSULATION CLASS	H
EXCITATION METHOD	Self Excited
VOLTAGE REGULATION	AS440 AVR / 1%
HARMONIC CONTENT	<5.00%
SHORT-CIRCUIT CAPACITY	>300%
SPACE HEATER	Optional

CONTROL SYSTEM - DSE 7320 MKII

BRAND	Deep Sea Electronics
MODEL	DSE 7320 MKII
CONFIGURABLE INPUTS / OUTPUTS	6 digital + 3 analogue senders / 6 outputs
KEY FEATURES	Auto-start, AMF control, LED indicators and event logging

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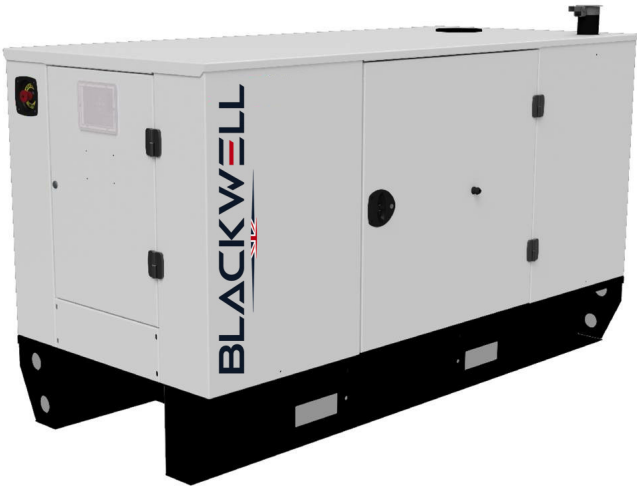
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DIMENSIONS & WEIGHT

LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	WEIGHT (kg)
2286	1104	1620	1412.25

Configuration: UK/EU Canopied / frame 2105E / tank 210 L

RATING CONDITIONS

RATING BASIS	NTP conditions; confirm project derating requirements
FREQUENCY / SPEED	50 Hz / 1500 RPM
VOLTAGE / CONNECTION	400/230 V / series star
POWER FACTOR	0.8 lagging
COOLING PACKAGE	Tropical radiator rated for 50 C ambient
STANDARDS	ISO 8528; IEC 60034

DISCLAIMER

Ratings and component data are transcribed from the corresponding Welland Power configuration for 400 V, three-phase, 50 Hz operation and checked against the listed Perkins engine and Stamford alternator models. Dimensions, weight, tank and noise data apply only to the configuration stated above. Images are illustrative and are intentionally common across this range. Final build specification, GA drawing, breaker selection and site derating must be confirmed at order. Manufacturer specifications may change without notice.

Dealer contact details: