emepowersolutions.com
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PRODUCT DATASHEET

MODEL P797-BWP

860 kVA	688 kW	797 kVA	638 kW
ESP	ESP	PRP	PRP

50 HZ | PRIME & STANDBY POWER



Illustration; final configuration may vary.

DIESEL ENGINE

ENGINE BRAND	Perkins
ENGINE MODEL	4006-23TAG3A
ASPIRATION	Turbocharged
GOVERNOR	Electronic

ALTERNATOR

BRAND	Stamford
MODEL	S6L1D-C41
EXCITATION	PMG
INSULATION CLASS	H
VOLTAGE REGULATION	0.5%
SPACE HEATER	Optional

GENERATOR SET - KEY PARAMETERS

GENSET MODEL	P797-BWP
POWER PRP	797 kVA / 638 kW
POWER ESP	860 kVA / 688 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	Open; Not published - confirm by configuration

AUXILIARY SYSTEMS

CONTROL MODULE	Deep Sea DSE 7320 MKII
COOLING RADIATOR	Tropical, 50 C ambient
FULL-LOAD CURRENT	1241.3 A at ESP
CIRCUIT BREAKER	Optional; sized to generator rating
COOLANT HEATER	Optional
STARTING BATTERY	Wet battery, maintenance-free
FUEL TANK	0 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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ENGINE TECHNICAL PARAMETERS - PERKINS 4006-23TAG3A - DIESEL

STRUCTURAL FORM	4 Stroke	**COMBUSTION SYSTEM**	Direct Injection
NUMBER OF CYLINDERS	6 (In Line)	**OIL CAPACITY**	113L
DISPLACEMENT	22.92L	**COOLANT CAPACITY**	120L
BORE / STROKE	160mm / 195mm	**MAX EXHAUST TEMP.**	500 ºC
COMPRESSION RATIO	13.6:1	**EU EMISSIONS**	None
ASPIRATION	Turbocharged		
GOVERNOR	Electronic		
COOLING METHOD	Liquid Cooled		
SPEED	1500 RPM		

FUEL CONSUMPTION

50% Load	75% Load	100% Load	110% Load
91.00 litres/hour	131.00 litres/hour	172.00 litres/hour	193.00 litres/hour

ALTERNATOR TECHNICAL PARAMETERS - STAMFORD S6L1D-C41

RATED POWER AT 400 V	ESP 860.0 kVA / PRP 810.0 kVA
NUMBER OF POLES / LEADS	4 / 6
WINDING NUMBER	312
BEARING TYPE	1 bearing
PROTECTION CLASS	IP23
INSULATION CLASS	H
EXCITATION METHOD	PMG
VOLTAGE REGULATION	MX321 AVR / 0.5%
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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Illustration; final configuration may vary.

DIMENSIONS & WEIGHT

LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	WEIGHT (kg)
4000	1690	2425	5253.15

Configuration: Export Open / frame GenericPerkins4000 / tank 0 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:

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