emepowersolutions.com
+44 1829 863497

PRODUCT DATASHEET

MODEL P1866-BWP

2,012 kVA ESP	1,610 kW ESP	1,866 kVA PRP	1,493 kW PRP

50 HZ | PRIME & STANDBY POWER



Illustration; final configuration may vary.

DIESEL ENGINE

ENGINE BRAND	Perkins
ENGINE MODEL	4016-61TRG1
ASPIRATION	Turbocharged
GOVERNOR	Electronic

ALTERNATOR

BRAND	Stamford
MODEL	S7L1D-F41
EXCITATION	PMG
INSULATION CLASS	H
VOLTAGE REGULATION	1%
SPACE HEATER	Optional

GENERATOR SET - KEY PARAMETERS

GENSET MODEL	P1866-BWP
POWER PRP	1,866 kVA / 1,493 kW
POWER ESP	2,012 kVA / 1,610 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	Configuration-specific; Not published - confirm by configurati

AUXILIARY SYSTEMS

CONTROL MODULE	Deep Sea DSE 7320 MKII
COOLING RADIATOR	Tropical, 50 C ambient
FULL-LOAD CURRENT	2904.1 A at ESP
CIRCUIT BREAKER	Optional; sized to generator rating
COOLANT HEATER	Optional
STARTING BATTERY	Wet battery, maintenance-free
FUEL TANK	Configuration-specific
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.

emepowersolutions.com
+44 1829 863497

PRODUCT DATASHEET

MODEL P1866-BWP

2,012 kVA ESP	1,610 kW ESP	1,866 kVA PRP	1,493 kW PRP

50 HZ | PRIME & STANDBY POWER

ENGINE TECHNICAL PARAMETERS - PERKINS 4016-61TRG1 - DIESEL

STRUCTURAL FORM	4 Stroke	COMBUSTION SYSTEM	Direct Injection
NUMBER OF CYLINDERS	16 (At Vee)	OIL CAPACITY	213L
DISPLACEMENT	61.123L	COOLANT CAPACITY	170L
BORE / STROKE	160mm / 190mm	MAX EXHAUST TEMP.	425 ºC
COMPRESSION RATIO	13:1	EU EMISSIONS	None
ASPIRATION	Turbocharged		
GOVERNOR	Electronic		
COOLING METHOD	Liquid Cooled		
SPEED	1500 RPM		

FUEL CONSUMPTION

50% Load	75% Load	100% Load	110% Load
193.00 litres/hour	280.00 litres/hour	371.00 litres/hour	401.00 litres/hour

ALTERNATOR TECHNICAL PARAMETERS - STAMFORD S7L1D-F41

RATED POWER AT 400 V	ESP 2,035.0 kVA / PRP 1,900.0 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	MX341 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

MODEL P1866-BWP

2,012 kVA	1,610 kW	1,866 kVA	1,493 kW
ESP	ESP	PRP	PRP

50 HZ | PRIME & STANDBY POWER



Illustration; final configuration may vary.

DIMENSIONS & WEIGHT

CONFIGURATION	Dimensions and weight not published - obtain project-specific GA drawing.

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:

EME POWER

sales@emeps.net

+44 1829 863497 | emepowersolutions.com