emepowersolutions.com
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PRODUCT DATASHEET

MODEL P2021-BWP

2,250 kVA ESP	1,800 kW ESP	2,021 kVA PRP	1,617 kW PRP

50 HZ | PRIME & STANDBY POWER



Illustration; final configuration may vary.

DIESEL ENGINE

ENGINE BRAND	Perkins
ENGINE MODEL	4016-61TRG2
ASPIRATION	Turbocharged
GOVERNOR	Electronic

ALTERNATOR

BRAND	Stamford
MODEL	S7L1D-G41
EXCITATION	PMG
INSULATION CLASS	H
VOLTAGE REGULATION	1%
SPACE HEATER	Optional

GENERATOR SET - KEY PARAMETERS

GENSET MODEL	P2021-BWP
POWER PRP	2,021 kVA / 1,617 kW
POWER ESP	2,250 kVA / 1,800 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	3247.6 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.

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ENGINE TECHNICAL PARAMETERS - PERKINS 4016-61TRG2 - DIESEL

STRUCTURAL FORM	4 Stroke	COMBUSTION SYSTEM	Direct Injection
NUMBER OF CYLINDERS	16 (At Vee)	OIL CAPACITY	213L
DISPLACEMENT	61.123L	COOLANT CAPACITY	300L
BORE / STROKE	160mm / 190mm	MAX EXHAUST TEMP.	489 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
208.00 litres/hour	306.00 litres/hour	405.00 litres/hour	463.00 litres/hour

ALTERNATOR TECHNICAL PARAMETERS - STAMFORD S7L1D-G41

RATED POWER AT 400 V	ESP 2,250.0 kVA / PRP 2,080.0 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 P2021-BWP

2,250 kVA ESP	1,800 kW ESP	2,021 kVA PRP	1,617 kW 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:

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