emepowersolutions.com
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PRODUCT DATASHEET

# MODEL P1728-BWP

| 1,873 kVA ESP | 1,498 kW ESP | 1,728 kVA PRP | 1,382 kW PRP |
|---|---|---|---|

## 50 HZ | PRIME & STANDBY POWER




Illustration; final configuration may vary.

## DIESEL ENGINE

| | |
|---|---|
| ENGINE BRAND | Perkins |
| ENGINE MODEL | 4012-46TAG3A |
| ASPIRATION | Turbocharged |
| GOVERNOR | Electronic |

## ALTERNATOR

| | |
|---|---|
| BRAND | Stamford |
| MODEL | S7L1D-E41 |
| EXCITATION | PMG |
| INSULATION CLASS | H |
| VOLTAGE REGULATION | 1% |
| SPACE HEATER | Optional |

## GENERATOR SET - KEY PARAMETERS

| | |
|---|---|
| GENSET MODEL | P1728-BWP |
| POWER PRP | 1,728 kVA / 1,382 kW |
| POWER ESP | 1,873 kVA / 1,498 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 | 2703.4 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. |

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

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|---|---|---|---|

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## ENGINE TECHNICAL PARAMETERS - PERKINS 4012-46TAG3A - DIESEL

| | | | |
|---|---|---|---|
| STRUCTURAL FORM | 4 Stroke | COMBUSTION SYSTEM | Direct Injection |
| NUMBER OF CYLINDERS | 12 (At Vee) | OIL CAPACITY | 157.5L |
| DISPLACEMENT | 45.84L | COOLANT CAPACITY | 233L |
| BORE / STROKE | 160mm / 190mm | MAX EXHAUST TEMP. | 441 ºC |
| COMPRESSION RATIO | 12.8:1 | EU EMISSIONS | None |
| ASPIRATION | Turbocharged | | |
| GOVERNOR | Electronic | | |
| COOLING METHOD | Liquid Cooled | | |
| SPEED | 1500 RPM | | |

## FUEL CONSUMPTION

| 50% Load | 75% Load | 100% Load | 110% Load |
|---|---|---|---|
| 188.80 litres/hour | 280.50 litres/hour | 363.30 litres/hour | 401.30 litres/hour |

## ALTERNATOR TECHNICAL PARAMETERS - STAMFORD S7L1D-E41

| | |
|---|---|
| RATED POWER AT 400 V | ESP 1,873.0 kVA / PRP 1,750.0 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 |

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|---|---|---|---|
| ESP | ESP | PRP | PRP |

**50 HZ | PRIME & STANDBY POWER**




Illustration; final configuration may vary.

## DIMENSIONS & WEIGHT

| LENGTH (mm) | WIDTH (mm) | HEIGHT (mm) | WEIGHT (kg) |
|---|---|---|---|
| 4948 | 2164 | 2782 | 10451.5 |

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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