# Model: **DGS-680P** *Powered by **Perkins***

| POWER | PRIME | STANDBY |
|---|---|---|
| **KVA** | **620** | **680** |
| **KW** | **500** | **550** |




| GENSET SPECIFICATIONS | |
|---|---|
| **ENGINE** | 2806A-E18TAG1A |
| **Voltage (V)** | 380/220 |
| **Phase** | 3 |
| **Frequency (Hz)** | 50 |
| **RPM (rpm)** | 1500 |
| **Power factor** | 0.8 |
| **Fuel Consumption (l/h)** | |
| ◦ **110%** | 163.27 |
| ◦ **100%** | 149.96 |
| ◦ **75%** | 110.25 |

| DIMENSIONS AND WEIGHT | |
|---|---|
| **Dimensions (LxWxH) (mm)** | ≤ 3300x1250x1800 |
| **Weight (kg)** | ≤ REQ |
| **Fuel tank** | Option |

***Remarks:***

1. All specifications in this catalog are subject to change withour prior notice for product improvement purposes.
2. All images shown are for illustrative purpose only.
3. Final weight and dimensions will depend on completed specification.

*** Standard reference condition::** air inlet temperature 27°C, altitude 100m (328ft) A.S.L. 30% relative humidity

1. Prime power: ISO 8528 prime power is the maximum power available during a variable power sequence, which maybe run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during at 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.
2. Standby power: It is defined as the maximum power available, under the agreed operating conditions, for which the generating set capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures being carried out as prescribed by the manufactures. No overload capability is available.

**Manufactured/Tested in accordance with ISO 8528.**



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## ENGINE : Perkins 2806A-E18TAG1A

| GENSET SPECIFICATIONS | |
|---|---|
| **Governor Type** | Electric |
| **Cylinders Number** | 6L |
| **Displacement (l)** | 18.1 |
| **Compression Ratio** | 14.5:1 |
| **Cooler type** | Water cooling, fan and radiator |
| **Aspiration** | Turbo charged and intercooled |
| **Bore x Stroke (mm)** | 145 x 183 |
| **Total lubricant capacity (l)** | 62 |
| **Engine's weight (kg)** | 2050 |

## ALTERNATOR

| GENSET SPECIFICATIONS | |
|---|---|
| **No of bearings** | 1 |
| **Pole** | 4 pole, brushless |
| **Connection type** | Star |
| **Insulation class** | Class H |
| **Voltage regulator** | A.V.R |
| **Voltage regulation** | ∓ 1% |
| **Excitation system** | Self-excited |
| **Protection rating** | IP23 |
| **Alternator's weight(kg)** | 1752 |



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## CONTROLLER : DSE 7320 (Made in U.K)

MEASUREMENTS

- Mains & genset voltages
- Mains & genset frequency
- Mains & genset phase currents
- Main & genset power (kVA - kW - kVAr)
- Power factor Cos φ
- Hours-counter
- Battery voltage
- Engine speed r.p.m.

COMMANDS AND OTHERS

- Four operation modes: OFF - Manual starting - Automatic starting - Automatic test
- Pushbutton for forcing Mains contactor or Genset contactor
- Push-buttons: start/stop, fault reset, up/down/page/enter selection
- Remote starting and stopping availability
- DC system disconnection switch
- Acoustic alarm
- Automatic battery charger
- Fully configurable via PC using USB, RS232 & RS485 communication
- Settable PASSWORD for protection level

PROTECTIONS

- Engine protections: low fuel level, low oil pressure, high engine temperature
- Genset protections: under/over voltage, overload, under/over frequency, starting failure, under/over battery voltage, battery charger failure
- Over current protection
- Independent earth fault protection

**CONTROLLER OPTIONS**

| DEEPSEA 6120 | DEEPSEA 7320 | DEEPSEA 8620 | ComAp AMF20 | ComAp IL9 | Sices GC315 |
|---|---|---|---|---|---|
| U.K | U.K | U.K | Czech | Czech | Italy |



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