# GPC400S6 | GPC400D6

Powered by Cummins

Genlitec®
Power & Lighting Solutions







## ■ Generator Specification

| Service | PRP(1) | ESP(2) |
|---|---|---|
| Power (KVA) | 400 | 440 |
| Power (KW) | 320 | 352 |
| Rated speed | 1800RPM | |
| Standard voltage | 220/127V | |
| Power factor | 0.8 | |
| Phase | 3 | |

| Performance Data | | |
|---|---|---|
| Model | | GPC400S6 \| GPC400D6 |
| Engine brand | | **CUMMINS** |
| Engine model | | NTA855-G3 |
| Speed control type | | Electronic |
| Alternator brand | | **GENLITEC** |
| Alternator model | | S314G280 |
| Control system | | **DEEPSEA** DSE6120 MKII |
| Starter motor voltage | | 24V |
| Frequency | | 60Hz |
| Fuel Consumption (L/H) | 100% Prime Load | 87.1 |
| | 75% Prime Load | 66.0 |
| | 50% Prime Load | 46.9 |
| | 25% Prime Load | 26.8 |
| | Fuel Tank (L) | 600 |

ISO CE

GENLITEC Power gensets are compliant with ISO 9001 and CE standard, which include the following directives:

- 2006/42/EC Machinery directive
- 2014/30/EU Electromagnetic compatibility directive
- EN 12100:2010; EN ISO 8528-13:2016; EN 60204-1:2018; EN 61000-6-2:2019; EN 61000-6-4:2019
- **GPC400S6 (Silent Type)**
- **GPC400D6 (Open Type)**

**(1) PRP (Prime Power)**

According to ISO 8528-1, prime power is the maximum power available during a variable power sequence, which may be 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) ESP (Standby Power)**

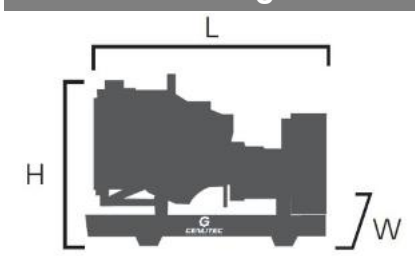
According to ISO 8528-1. It is defined as the maximum power available, under the agreed operating conditions, for which the generating set can deliver for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures being carried out as prescribed by the manufactures. No overload capability is available.

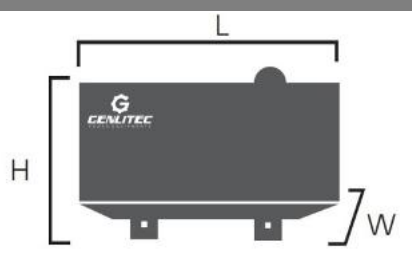
| Voltage (V) | ESP | | PRP | | Current |
|---|---|---|---|---|---|
| | KVA | KW | KVA | KW | Amps |
| 480/277 | 440 | 352 | 400 | 320 | 481.1 |
| 220/127 | 440 | 352 | 400 | 320 | 1049.8 |
| 208/120 | 440 | 352 | 400 | 320 | 1110.3 |

**Standard Reference Conditions**

Note: Standard reference condition 25℃ (77°F) air inlet temp. 100m (328ft) A.S.L 30% relative humidity. Fuel consumption date with diesel fuel with specific gravity of 0.85 and conforming to BS 2869: 1998 Class A2

## Dimension & Weight




| Dimension | Open type | Silent type |
|---|---|---|
| Length (L) | 3100mm | 4350mm |
| Width (W) | 1200mm | 1400mm |
| Height (H) | 1950mm | 2250mm |
| Net Weight | 3100kg | 4250kg |

**Note: This parameter allows for some acceptable deviations.**

**GENLITEC POWER** has the right to modify any feature without prior notice, Weights and dimensions based on standard products. Illustrations may include optional equipment. Technical data described in this document correspond to the available information at the moment of printing. The illustrations and images are indicative and may not coincide in their entirety with the product.

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## ■ Engine Specification



| MODEL: CUMMINS NTA855-G3 | |
|---|---|
| Cylinder number | 6 |
| Aspiration system | Turbo & Aftercooled |
| Cooling method | Water cooled |
| Governor type | Electronic |
| Bore x Stroke (mm) | 140 x 152 |
| Compression ratio | 14.0:1 |
| Rated speed (RPM) | 1800 |
| Displacement (L) | 14 |
| Rated power (KW) | 358 |
| Standby power (KW) | 399 |
| Fuel system | Cummins PT pump |
| Coolant capacity (L) | 49.2 |
| Oil capacity (L) | 38.6 |
| Max. water temperature | 104℃ |
| Starter motor capacity | DC 24V |

## ■ Alternator Specification




| MODEL: GENLITEC S314G280 | |
|---|---|
| Number of phase | 3 |
| Rated power (KW/KVA) | 336/420 |
| Frequency (Hz) | 60 |
| Power factor (Cos Phi) | 0.8 |
| Poles | 4 |
| Temp. rise | 125K |
| Terminals | 6 (12-lead for option) |
| Insulation type | H class |
| Ambient temp. | 40℃ |
| IP rating | IP23 |
| Excitation system | Self-excited |
| Bearing | Single bearing |
| Coating | Vacuum impregnation |
| Voltage regulator | A.V.R |
| Coupling | Flexible disc |

### Standard Supply Scope

- ■ Industrial exhaust silencer
- ■ Maintenance free battery
- ■ Water cooling radiator
- ■ A.V.R
- ■ Flexible pipes
- ■ Battery wires
- ■ Wiring diagram
- ■ Build-in based fuel tank
- ■ Float Battery charger
- ■ Manual books
- ■ Tool kits
- ■ Emergency stop button
- ■ Base frame
- ■ Digital control panel
- ■ Main circuit breaker

## ■ Optional Supply Scope

| Engine | Alternator | Generator Sets | Control Panel |
|---|---|---|---|
| O Water jacket pre-heater | O Anti-condensation heater | O Galvanized steel enclosure | O Remote control system |
| O Lubrication oil pre-heater | O AREP / PMG | | O ATS panel |
| O Battery isolator | O **STAMFORD** alternator | | O Synchronizing System |
| | O **LEROY SOMER** alternator | | |

## ■ Warranty Period

**CUMMINS diesel engine:** Global warranty, 12 months or 1000 working hours.
**STAMFORD/LEROY SOMER alternator:** Global warranty, 12 months or 1000 working hours.
**GENLITEC alternator:** Factory warranty, 12 months or 1000 working hours.
**DEEPSEA control module:** Factory warranty, 12 months or 1000 working hours.

# GPC400S6 | GPC400D6

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## ■ Control Panel

| Configuration |
|---|
| ■ Emergency stop button |
| ■ Protection MCB (Main circuit breaker) |
| ■ Float battery charger |
| ■ ATS connection |
| ■ AMF digital control module |
| ■ Fuel level meter |
| ■ Controller power switch |
| ■ Alarm buzzer |




| Features |
|---|
| ■ Multiple display languages |
| ■ Automatic transfer between mains and generator power |
| ■ 3-phase mains and generator voltage monitoring |
| ■ Generator current monitoring and protection |
| ■ Event log for 10 events and engine-hours counter |
| ■ 6 digital inputs and 3 analog sender inputs |
| ■ Six outputs; configuration depends on the engine version |
| ■ Three phase generator protections |
| - Over / under voltage |
| - Over / under frequency |
| - Current / voltage asymmetry |
| - Over current / overload |
| ■ Three phase AMF function |
| - Over / under voltage |
| - Loss of phase detection function |
| ■ Emergency start function |
| ■ IP65 rating with rubber-ring gasket |

| Control Module Model: DEEPSEA DSE6120 MKII | |
|---|---|
| Display | Large back-lit text display |
| Generator & Mains (Utility) Voltage Range | 15 V to 415 V AC (Ph to N)<br>26 V to 719 V AC (Ph to Ph) |
| Frequency range | 3.5 Hz to 75 Hz |
| Analogue inputs A to F | Negative switching |
| AMF function | Yes |
| AC System | 1P2W / 2P3W / 3P3W / 3P4W |
| Alternator frequency | 50/60Hz |
| Monitor interface | USB |
| Programmable interface | USB |
| DC supply | DC 8-35V |
| Operating temp. | -30 ~ +70℃ |

**Control Module Certified**

CE PCT c UL us LISTED EGSA AMPS IPC MEMBER

## ■ Controller Module Options

| COMAP | SMARTGEN | DEEPSEA |
|---|---|---|
| **AMF25** | **HGM6120N** | **DSE7320 MKII** |
|  |  |  |




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