

# GPS690C

Cummins diesel generator | Open set

Designed and manufactured in the United Kingdom

## 690 kVA

ROUNDED CATALOGUE CLASS

### ENGINE PLATFORM

## Cummins

### VTA28G5

Model-specific drawing supplied with quotation.

### SELECTED CONFIGURATION

#### ENGINE

**Cummins VTA28G5**

#### ALTERNATOR

**Stamford S5L1D-F41**

#### ELECTRICAL OUTPUT

**400 V | 3-phase | 50 Hz**

Configuration and appearance are confirmed with the quotation.

### PRIME POWER / PRP

## 640 kVA

512 kW

### STANDBY POWER / ESP

## 692 kVA

554 kW

Ratings shown at 400 V, 3-phase, 50 Hz. The GPS model number is a rounded class; use the exact ratings for selection.

### PUBLISHED ELECTRICAL RATINGS

| Voltage (V) | Connection | ESP (kVA) | ESP (kW) | PRP (kVA) | PRP (kW) |
|-------------|------------|-----------|----------|-----------|----------|
| 380         | SS         | 689       | 551      | 638       | 510      |
| 400         | SS         | 692       | 554      | 640       | 512      |
| 415         | SS         | 693       | 554      | 640       | 512      |

PRP = prime power. ESP = emergency standby power. Values apply to the selected engine and alternator above. Connection codes follow the reference specification and must be confirmed before installation.

# Technical specification

GPS690C | Cummins VTA28G5 | Open set

## ENGINE

|                   |                  |
|-------------------|------------------|
| Manufacturer      | Cummins          |
| Model             | VTA28G5          |
| Aspiration        | Turbocharged     |
| Combustion        | Direct Injection |
| Cycle             | 4 Stroke         |
| Governor          | Electronic       |
| Cylinders         | 12               |
| Arrangement       | At Vee           |
| Displacement      | 28L              |
| Bore              | 140mm            |
| Stroke            | 152mm            |
| Compression ratio | 13.1:1           |
| Cooling           | Liquid Cooled    |
| Coolant capacity  | 159L             |
| Oil capacity      | 83L              |

## ALTERNATOR

|                    |                  |
|--------------------|------------------|
| Manufacturer       | Stamford         |
| Model              | S5L1D-F41        |
| Type               | Brushless        |
| Phases             | 3                |
| Bearings           | 1                |
| Poles              | 4                |
| Leads              | 12               |
| AVR                | AS440            |
| Voltage regulation | 1.0% Regulation% |
| Insulation class   | H                |
| Excitation         | Brushless        |
| Winding            | 311              |
| Harmonic content   | <5.00%           |
| Short circuit      | >300%            |

## REFERENCE FUEL CONSUMPTION

|                                  |                                   |                                    |                                    |
|----------------------------------|-----------------------------------|------------------------------------|------------------------------------|
| <b>50% LOAD</b><br><b>73 L/h</b> | <b>75% LOAD</b><br><b>104 L/h</b> | <b>100% LOAD</b><br><b>140 L/h</b> | <b>110% LOAD</b><br><b>154 L/h</b> |
|----------------------------------|-----------------------------------|------------------------------------|------------------------------------|

Reference figures vary with operating conditions and the confirmed duty.

## INSTALLATION INFORMATION

|                                           |                                  |
|-------------------------------------------|----------------------------------|
| <b>REFERENCE WEIGHT</b><br><b>2050 kg</b> | <b>FUEL TANK</b><br><b>730 L</b> |
|-------------------------------------------|----------------------------------|

Reference frame 9007GA (Export). Drawing, weights and tank capacity are subject to the ordered build.

## OTHER CONFIGURATIONS IN THIS CATALOGUE CLASS

| Engine  | Alternator           | V / phase | ESP kVA | PRP kVA |
|---------|----------------------|-----------|---------|---------|
| VTA28G5 | Leroy Somer TAL0473F | 400 / 3   | 693     | 640     |

Engineering data above apply only to the selected configuration on page 1.

Final enclosure, controls, protection, acoustics and emissions suitability must be specified for the project. This sheet is a configuration guide, not an installation drawing.

GenPro technical specification | Reviewed 2026-10-12