



# PPG680S

Scania diesel generator | Open set

Designed and manufactured in the United Kingdom

## 680 kVA

ROUNDED CATALOGUE CLASS

### ENGINE PLATFORM

# Scania

## DC16093A-02-53

Model-specific drawing supplied with quotation.

### SELECTED CONFIGURATION

#### ENGINE

**Scania DC16093A-02-53**

#### ALTERNATOR

**Stamford HCI544F1**

#### ELECTRICAL OUTPUT

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

Configuration and appearance are confirmed with the quotation.

### PRIME POWER / PRP

# 613 kVA

490 kW

### STANDBY POWER / ESP

# 673 kVA

538 kW

Ratings shown at 400 V, 3-phase, 50 Hz. The PPG 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) |
|-------------|------------|-----------|----------|-----------|----------|
| 190         | PS         | 671       | 537      | 610       | 488      |
| 200         | PS         | 673       | 538      | 613       | 490      |
| 208         | PS         | 674       | 539      | 613       | 490      |
| 220         | PS         | 676       | 541      | 615       | 492      |
| 220         | SD         | 671       | 537      | 611       | 489      |
| 230         | SD         | 673       | 538      | 613       | 490      |
| 240         | SD         | 674       | 539      | 613       | 490      |
| 254         | SD         | 676       | 541      | 615       | 492      |
| 380         | SS         | 671       | 537      | 611       | 489      |
| 400         | SS         | 673       | 538      | 613       | 490      |
| 415         | SS         | 674       | 539      | 613       | 490      |
| 440         | SS         | 676       | 541      | 615       | 492      |

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

PPG680S | Scania DC16093A-02-53 | Open set

## ENGINE

|                   |                       |
|-------------------|-----------------------|
| Manufacturer      | Scania                |
| Model             | <b>DC16093A-02-53</b> |
| Aspiration        | Turbocharged          |
| Combustion        | Direct Injection      |
| Cycle             | 4 Stroke              |
| Governor          | ECU                   |
| Cylinders         | 8                     |
| Arrangement       | At Vee                |
| Displacement      | 16.4L                 |
| Bore              | 130mm                 |
| Stroke            | 154mm                 |
| Compression ratio | 16.7:1                |
| Cooling           | Liquid Cooled         |
| Coolant capacity  | 68L                   |
| Oil capacity      | 48L                   |

## ALTERNATOR

|                    |                 |
|--------------------|-----------------|
| Manufacturer       | Stamford        |
| Model              | <b>HCI544F1</b> |
| Type               | Brushless       |
| Phases             | 3               |
| Bearings           | 1               |
| Poles              | 4               |
| Leads              | 12              |
| AVR                | <b>AS440</b>    |
| Voltage regulation | 1%              |
| Insulation class   | H               |
| Excitation         | Self Excited    |
| Winding            | 311             |
| Harmonic content   | <5.00%          |
| Short circuit      | >300%           |

## REFERENCE FUEL CONSUMPTION

|                                    |                                    |                                      |                                      |
|------------------------------------|------------------------------------|--------------------------------------|--------------------------------------|
| <b>50% LOAD</b><br><b>60.4 L/h</b> | <b>75% LOAD</b><br><b>88.2 L/h</b> | <b>100% LOAD</b><br><b>120.1 L/h</b> | <b>110% LOAD</b><br><b>135.6 L/h</b> |
|------------------------------------|------------------------------------|--------------------------------------|--------------------------------------|

Reference figures vary with operating conditions and the confirmed duty.

## INSTALLATION INFORMATION

|                                             |                                  |
|---------------------------------------------|----------------------------------|
| <b>REFERENCE WEIGHT</b><br><b>3558.8 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.

## SPECIFY YOUR PROJECT

Tell us your site load, required voltage and phase, prime or standby duty, ambient conditions and installation requirements. PPG will confirm a suitable build and its exact specification.

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

PPG technical specification | Reviewed 2026-10-12