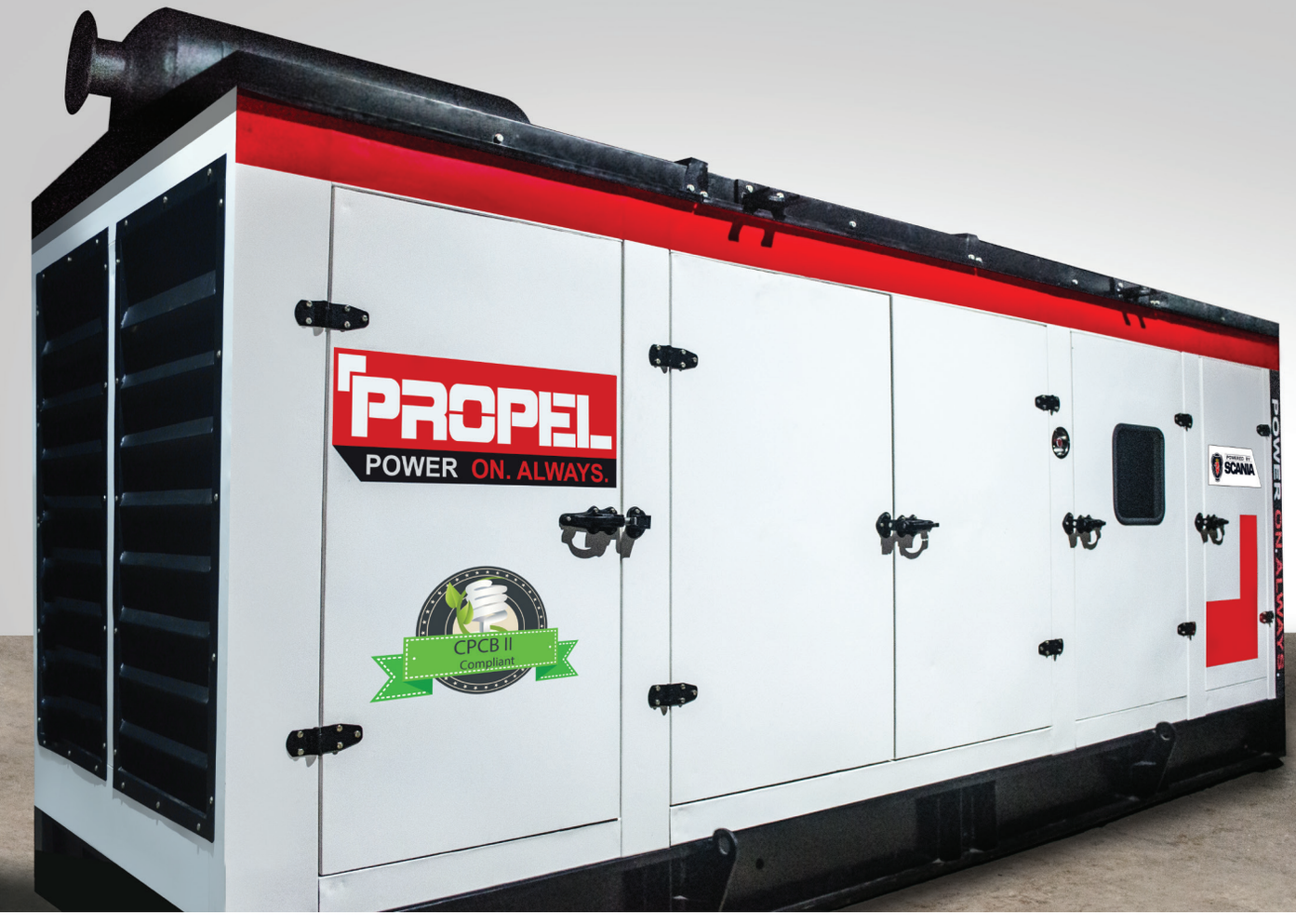
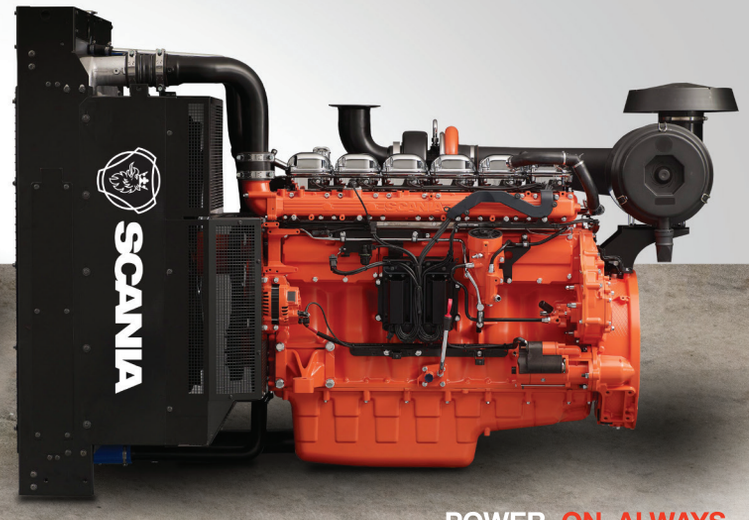
PROPEL
INDENERGY SOLUTIONS

# 365 kVA & 400 kVA

GENERATOR SETS




POWER ON. ALWAYS.

## 1 The Diesel Generator Set: The Power House

- In-house packaging
- In-house design & manufacturing of Control Panel, Acoustic Canopy, Base Frame, Silencers and Fuel Tank
- Powder coating with 9-Tank pre-treatment process
- In-house test cell
- Manufactured for ease of servicing & usage

## 2 The Engine

- Versatile inline engine - sourced from Scania, a Volkswagen family company.
- Made for the future, in action today.
- Reliable power, anywhere - any hour.
- Engineered for maximum uptime.
- Less diesel, More kVA
- Exceptional step load handling capability.

## 3 The AC Generators

- Provided with AREP winding / PMG.
- LAM for sudden block loading, improved recovery time.

## 4 Diagnostic & Monitoring

- Monitors Engine speed, oil pressure & coolant temperature
- Monitors frequency, voltage, current & power
- Comprehensive engine and alternator protection
- Inbuilt Auto-Mains (Utility), failure control module
- Largest backlit LCD icon display, with alarm indication

## 5 The Acoustic Enclosures

- Modular RTU Design
- Inbuilt fuel tank duly piped and control panel duly wired
- Twin door system leading to better access to the DG Set, resulting in easy maintenance and maximum uptime
- Special access for radiator cleaning
- Powder coated for weather proof and long lasting finish

CPCB II Compliant

POWERED BY SCANIA

# Specifications

## DIESEL GENERATOR SET

| | | | |
|---|---|---|---|
| **Model** | | P 365 DC09 | P 400 DC13 |
| **Prime Power rating** | kVA / kWe | 365/292 | 400/320 |
| **Duty** | | PRIME | |
| **Power Factor** | | 0.8 lagging | |
| **Output Voltage** | Volts | 415 | |
| **Output Frequency** | Hz | 50 | |
| **No. of phases** | | 3 | |
| **Full load Current** | Ampere | 507 | 556 |
| **RPM** | | 1500 | |
| **Overall Dimensions of the genset (l x w x h)** | mm | 5000 x 1800 x 2200 | 5700 x 2100 x 2400 |
| **Approximate Weight** | kg | 5200 | 5600 |
| **Acoustic Canopy** | | Made out of 100 mm steel CRCA sheets, Bottom Lifting, rockwool insulated with residential silencer and specially designed for increased service accessabilty. | |

## DIESEL ENGINE

| | | | |
|---|---|---|---|
| **Engine Model** | | DC09 071A | DC13 071A |
| **No. of Cylinders** | Qty | 5 | 6 |
| **Gross Engine bhp** | hp | 430.2 | 494.6 |
| **No. of Stroke** | | 4 Stroke | |
| **Bore** | mm | 130 | 130 |
| **Stroke** | mm | 140 | 160 |
| **Displacement** | cc | 9300 | 127 |
| **Compression Ratio** | | 16:01 | 17.3:1 |
| **Direction of Rotation from Flywheel end** | | Counter clock wise | |
| **Reference Standard** | REF | ISO 8528-5 G2 | |
| **Governing system** | | Scania engine management system, EMS | |
| **Starting Battery Volts** | Volts | 24 V | |
| **Engine Cooling System Coolant Capacity** | Litres | 24 | 45 |
| **Cooling Capacity Including Radiator** | Litres | 38 | 50 |
| **Coolant topping-up / draining frequency** | | 7200hrs, Only with the use of Scania Genuine Coolant. Draining at 6000 hrs for others. Both within 5years or whichever is earlier | |
| **Engine Mounted Radiator Fan Power** | kW | 6 | 10 |
| **Fuel System** | | Scania Unit Injection, PDE | |
| **Filter Type** | | Paper filter element, 10 micron | |
| **No of filters** | Qty | 1 | |
| **Lub Oil system capacity (with filters)** | Litres | 36 | 45 |
| **Lube Oil Change Period** | Hours | 500 hours | |

Parameters can be displayed with required shut off system

## AC GENERATOR

| | | | |
|---|---|---|---|
| **Power rating** | kVA / kWe | 365/292 | 400/320 |
| **Power Factor** | | 0.8 lagging | |
| **No. of phases** | | 3 | |
| **Output Frequency** | Hz | 50 | |
| **RPM** | | 1500 | |
| **Output Voltage** | Volts | 415 | |
| **Voltage Variation** | % RV | 5% | |
| **Full load Current ( Rated)** | Ampere | 507 | 556 |
| **Enclosure** | IS: 4691 | IP 23 | |
| **Cooling** | IS: 6362 | IC 01 | |
| **Insulation Class** | | H | |
| **Excitation Type** | | Self Exciter and Self regulated Brushless | |
| **Voltage regulation** | | +/- 0.5% From no load to full load at lagging power factor of 0.1 to 1.0 & speed drop of less than or equal to 4% | |
| **Overload Capacity** | | 1.5 x Rated Full Load Current for 15sec or 1hr in every 12 hr with 10% overload | |
| **Unbalanced Load Permitted** | | 20% (Not exceeding Rated FLC in any phase) | |

Fuel tank with all internal piping and Standard Control Panel with all internal wiring and cabling provided as a standard scope of supply. For requirement of AMF control panel or synchronisation panels or any special panels, please contact us.

## RATING CONDITIONS

- Ratings are Prime Power rating as per ISO 8528.
- Ratings are at 415 volt, 3 phase, 50 Hz, 0.8 pf at 1500 rpm.
- 10 % overload for one hour in every 12 hours permitted in accordance with ISO 3046/1, BS 5514, DIN 6271 for prime rated packages.
- Package comply to CPCB II exhaust emissions and noise regulations.
- All specifications and dimensions are for referernce purpose and are subject to revisions and improvements.

*Reference condition as per IS 10002, ISO 3046.


PROPEL INDENERGY SOLUTIONS

**PROPEL INDENERGY SOLUTIONS PRIVATE LIMITED**
CIN: U31101MH1999PTC120761

**HEAD OFFICE:**
E Building, G/A, Ground Floor, MBC Park, Ghodbunder Road, Kasarwadavali, Thane (West) - 400615, Maharashtra, India

**FACTORY AND REGISTERED OFFICE:**
Plot No. H-15, Addl. Murbad MIDC, Kudawali, Murbad, Dist. Thane, Maharashtra - 421401, India

**GREATER NOIDA FACILITY:**
B-23A, Ecotech I Extn., Greater Noida, Gautam Buddha Nagar, U.P. - 201308, India

**BRANCH DETAILS:** Mumbai: +91 99201 29298 | Kolkata: +91 98313 86183 | Chennai: +91 95979 15666
Delhi: +91 98107 22970 | Bhubaneswar: +91 93373 33331 | Hyderabad: 98858 78931

**EMAIL:**
sales@propelsystech.com