





| Engine specification                |                             |      | Alternator specification           |                          |
|-------------------------------------|-----------------------------|------|------------------------------------|--------------------------|
| <b>Brand</b>                        | <b>DOOSAN</b>               |      | <b>Brand</b>                       | <b>Mecc Alte</b>         |
| <b>Model</b>                        | <b>P086TI-1</b>             |      | <b>Model</b>                       | <b>ECP34 3L4A</b>        |
| Air Intake System                   | Turbo charged & intercooled |      | Number of Phase                    | 3                        |
| Fuel System                         | Doowon P type fuel pump     |      | Connecting Type                    | “Y” type connecting      |
| Cylinder Arrangement                | 6 in line                   |      | Number of Bearing                  | 1                        |
| Displacement                        | 8.071L                      |      | Power Factor                       | 0.8                      |
| BorexStroke                         | 111x139 mm                  |      | Protection Grade                   | IP23                     |
| Compression Ratio                   | 16.4:1                      |      | Altitude                           | ≤1000m                   |
| Governor Type                       | Electronic Governor         |      | Exciter Type                       | Brushless, self-exciting |
| Frequency Regulation, Steady State: | ≤1.5%                       |      | Insulation Class, Temperature Rise | H/H                      |
| Starting system                     | E                           |      | Alternator Capacity                | 190KVA                   |
| Battery voltage                     | 12VDC                       |      | Telephone Influence Factor (TIF)   | <50                      |
| Fuel consumption(L/h)               | 100% load                   | 42.4 | THF                                | <2%                      |
|                                     | 75% load                    | 31.6 | Voltage Regulation, Steady State   | ≤±1%                     |
|                                     | 50% load                    | 22.1 | Alternator Efficiencies            | 92.4%                    |
|                                     | 25% load                    | 12.2 | Air Cooling Flow                   | 0.514m3/s                |

| Exhaust System      |            | Air Intake System      |             |
|---------------------|------------|------------------------|-------------|
| Exhaust Gas Flow    | 38.8m3/min | Max Intake Restriction | 6.23kPa     |
| Exhaust Temperature | 500°C      | Cooling Fan Air Flow   | 224m3/min   |
| Max Back Pressure   | 5.9kPa     | Intake Air Flow        | 21.53m3/min |

| Oil System                |         | Cooling System         |         |
|---------------------------|---------|------------------------|---------|
| Max Oil Capacity          | 15.5L   | Total Coolant Capacity | 44L     |
| Oil Consumption           | TBD     | Thermostat             | 71-85°C |
| Max oil temperature       | 120°C   | Max Water Temperature  | 103°C   |
| Oil Pressure at Rated RPM | ≥250kpa |                        |         |



## Control system

### Deepsea brand DSE7320 (Standard)

#### Features:

- Auto Mains (Utility) Failure control module
- Remote PC and via SMS textalerts (with external modem)
- LED and LCD alarm indication
- Include USB, RS232 and RS485 ports
- Support for up to three remote display units
- Generator measurements (50/60 Hz): U1-U3, I1-I3, Hz, kW, kVAr, kWh
- Charge alternator failure alarm
- 3 phase Generator protections:
  - Over-/under voltage
  - Over-/under frequency
  - Current/voltage asymmetry
  - Overcurrent/overload
- Analog oil pressure, water temperature, fuel level, battery voltage, engine speed
- Load switching (load shedding and dummy load outputs)
- CAN and Magnetic Pick-up/Alt.sensing
- Automatic load transfer

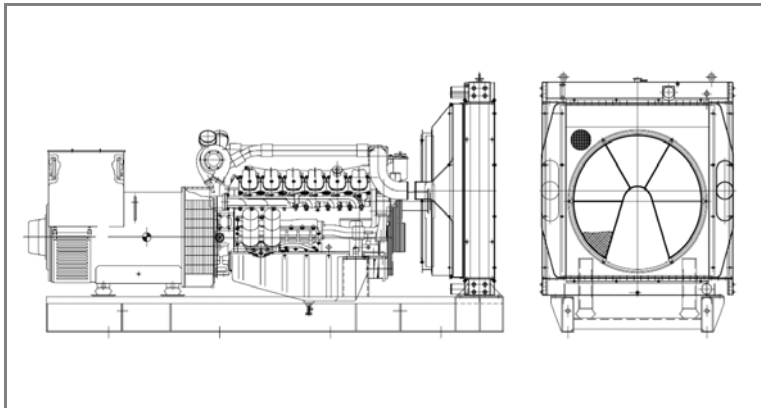




**Optional parts**

| Engine                      | Fuel System          | Control System              |
|-----------------------------|----------------------|-----------------------------|
| ● Heater                    | ● Daily Fuel Tank    | ● Remote Control Panel      |
| ● Battery Charger           | ● Water Separator    | ● Auto Transfer Switch      |
|                             | ● Fuel Level Sensor  | ● Paralleling System        |
| Alternator                  | Others               | Data                        |
| ● Anti Condensation Heater  | ● Soundproof Type    | ● Engine Parts Drawing List |
| ● Drop CT (For Paralleling) | ● Trailer Type       | ● Spare parts               |
| ● PMG                       | ● Containerized Type |                             |

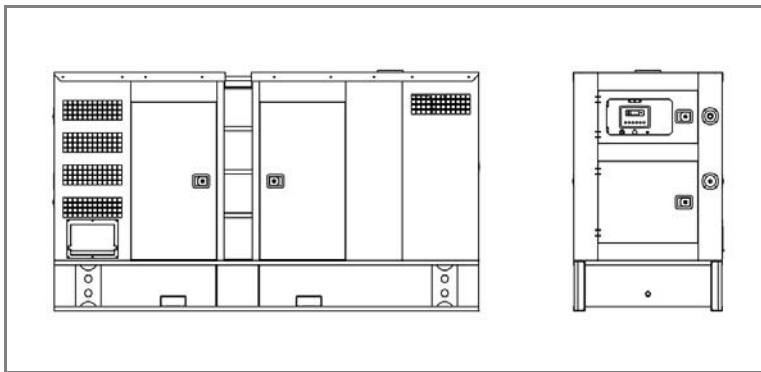
**Dimension and Weight**



**Open Type Genset**

Dimension: 2800x1050x1600 mm

Weight: 1700 kg



**Soundproof Type Genset**

Dimension: 3300x1250x1950 mm

Weight: 2300 kg

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