

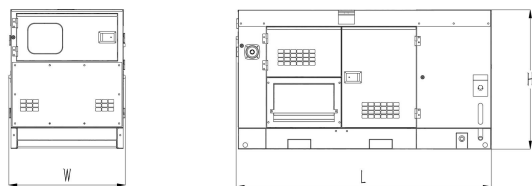


## ● Generator Specification

|                    |           |         |         |
|--------------------|-----------|---------|---------|
| Model              | SE-K500C5 |         |         |
| Frequency          | Hz        | 50      | 60      |
| Prime power        | kW/kVA    | 360/450 | NA      |
| Standby power      | kW/kVA    | 400/500 | NA      |
| Rated voltage      | V         | 380~415 | 220~480 |
| Phase/Power factor | 3Ph / 0.8 |         |         |
| Governor           | ECU       |         |         |
| Performance        | G3        |         |         |

## ● Dimensions & Weight & Fuel Capacity

|               |    |                  |
|---------------|----|------------------|
| L*W*H         | mm | 4328*1600*2350   |
| Weight        | kg | Refer to drawing |
| Fuel Capacity | L  | 800              |



**standards:**ISO8528-5:2025(GB/T2820.5-2025),ISO12100:2010,I SO13849-1:2023,IEC60204-1:2016,IEC60947-1:2020,2006/42/E C Machinery safety, 2006/95/EC Low voltage

●**Prime Power (PRP):** For variable load applications, with no usage hours limit throughout the year; the average permissible output power over 24 consecutive hours shall not exceed 70% of the operating power.

●**Emergency Standby Power (ESP):** For applications during power outages or under test conditions, the maximum annual usage time shall not exceed 200 hours. The average permissible output power during 24 hours of continuous operation shall not exceed 70% of the standby rated power.

## ● Voltage & Current

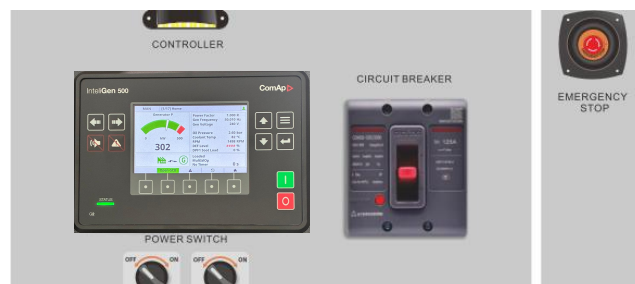
| Rate<br>voltage | Current (50Hz) |         | Current (60Hz) |         |
|-----------------|----------------|---------|----------------|---------|
|                 | Rated          | Standby | Rated          | Standby |
| 220V            | NA             | NA      | NA             | NA      |
| 380V            | 683.7A         | 759.7A  | NA             | NA      |
| 400V            | 649.5A         | 721.7A  | NA             | NA      |
| 415V            | 626.1A         | 695.6A  | NA             | NA      |
| 440V            | NA             | NA      | NA             | NA      |
| 480V            | NA             | NA      | NA             | NA      |

## ● Noise level

|               |       |     |
|---------------|-------|-----|
| 0% load & 7m  | dB(A) | TBD |
| 75% load & 7m | dB(A) | TBD |

## Control system

|            |           |               |
|------------|-----------|---------------|
| Controller | ComAp     | IG500-G2      |
| Breaker    | Schneider | MCCB 4P 700A  |
| Battery    | Varta     | 6-QW-120(850) |



## Diesel Engine

### ● Specification

|                   |     |          |      |
|-------------------|-----|----------|------|
| Brand             |     | Cummins  |      |
| Model             |     | QSZ13-G5 |      |
| Rated speed       | rpm | 1500     | 1800 |
| Rated power       | kW  | 411      | NA   |
| Standby power     | kW  | 470      | NA   |
| Compression ratio |     | 17:1     |      |
| Cylinders         |     | 6        |      |
| Bore * stroke     | mm  | 130*163  |      |
| Displacement      | L   | 13       |      |
| Intake method     |     | TA-A     |      |
| Low idle speed    |     | 700      |      |

### ● Lubrication system

|                  |                                 |                  |  |
|------------------|---------------------------------|------------------|--|
| Lub. Method      | Fully forced pressure feed type |                  |  |
| Max. Oil Temp    | °C                              | NA               |  |
| Oil pan capacity | L                               | High level 75.33 |  |
| Oil pan capacity | L                               | Low level NA     |  |

### ● Fuel consumption

|           |     | 50Hz  | 60Hz |
|-----------|-----|-------|------|
| 110% load | L/h | 107.1 | NA   |
| 100% load | L/h | 93.2  | NA   |
| 75% load  | L/h | 69.9  | NA   |
| 50% load  | L/h | 49.0  | NA   |
| 25% load  | L/h | 29.2  | NA   |

Notes: (1) In accordance with GB19147-2006 automotive diesel fuel, standard 0# diesel fuel test, at 20°C, approximately 0.835 g/cm<sup>3</sup>. (2) Data sourced from the original diesel engine data sheet.

### ● Fuel system

|                      |                           |            |
|----------------------|---------------------------|------------|
| Fuel pump type       | HPCR                      |            |
| Feed pump            | Mechanical                |            |
| Inlet pipe diameter  | mm                        | M18*1.5-6g |
| Return pipe diameter | mm                        | M16*1.5-6H |
| Fuel filter          | Full flow, cartridge type |            |

### ● Air intake & exhaust system

|                           |     |         |
|---------------------------|-----|---------|
| Maximum back pressure     | kPa | 13      |
| Maximum intake resistance |     |         |
| -Clean filter             | kPa | 3.2     |
| -Dirty filter             | kPa | 6.2     |
| Exhaust Gas Temperature   | °C  | 485-523 |

### ● Cooling system

|                             |              |       |
|-----------------------------|--------------|-------|
| Cooling method              | Water-cooled |       |
| Std. T-stat Temp            | °C           | 82-94 |
| Max. coolant temp (Prime)   | °C           | NA    |
| Max. coolant temp (Standby) | °C           | NA    |
| Coolant capacity (Engine)   | L            | 23.1  |
| Coolant capacity (radiator) | L            | 63.0  |
| Minimum Pressure Cap        | kPa          | NA    |
| Radiator                    | °C           | 50    |

### ● Electrical system

|                 |     |     |
|-----------------|-----|-----|
| Control voltage | V   | 24  |
| Starter power   | kW  | 8.5 |
| Battery power   | CCA | 850 |



## Key Features

- Heavy-duty, direct-injection, water-cooled diesel engines offer maximum reliability;
- Vertical shaft fan-cooled closed-type water tank radiator;
- Brushless alternators reduce maintenance requirements and meet H/H level insulation and temperature rise requirements;
- Automatic voltage regulators (AVR) enable precise voltage regulation;
- The heavy-duty chassis features a sheet metal structure, and the engine and generator are fitted with natural rubber shock absorbers connected to the chassis to minimize unit vibration.
- The silent, soundproof, weather-resistant steel shell. The fully enclosed design ensures safe operation without human intervention. The built-in fuel tank is equipped with a direct-reading mechanical fuel gauge.
- Powder coatings with advanced pretreatment and spraying processes are durable and waterproof.
- The standard configuration includes an oil-water separator, which can effectively remove some of the water from the fuel and extend the engine's service life
- The automatic start/stop control function allows the generator to start automatically in the event of a public power outage;
- A comprehensive engine and generator detection and protection system that monitors and protects parameters such as water temperature, oil pressure, voltage, and power in real time.
- Standard configuration includes a 3-pole main circuit breaker .
- Standard configuration includes Varta maintenance-free batteries, battery negative terminal circuit breaker, and battery charger.
- Complete technical documentation, including: generator set instruction manual, outline drawings, electrical schematics, and accompanying materials for the engine and generator.

## Optional Features

- ☐ Heavy-duty desert air filter & cyclone air filter pre-filter
- ☐ Fuel-water separator with manual/electric oil pump
- ☐ Fuel-water separator with electric heating and electric oil pump
- ☐ Oil heater
- ☐ AC/Fuel Heated Water Jacket Heater
- ☐ Manual oil drain pump
- ☐ Remote water tank and heat exchanger
- **Alternator**
  - ☐ PMG/AREP Excitation system (base number ≥ 224)
  - ☐ Harsh Environment Protection
  - ☐ Air intake filter (Power drop 5%)
  - ☐ IP44 protection grade (Power drop 10%)
  - ☐ Winding RTD (Winding Temperature Sensing Component)
  - ☐ Bearing RTD (Bearing Temperature Measurement Component)
- **Electrical components**
  - ☐ RS485, 4G and GPS Wireless communication card
  - ☐ ABB or Schneider main circuit breaker
  - ☐ 4P breaker
  - ☐ Electric circuit breaker (standby current ≤ 1600A)
  - ☐ AGM Maintenance-free batteries (non-hazardous goods)
  - ☐ Automatic parallel/synchronization system
  - ☐ ATS cabinet (Dual power transfer cabinet)
  - ☐ Aviation sockets (European /Australian standard, etc.)
  - ☐ Other brands/models of controllers
- **Mechanical structure**
  - ☐ Independent steel fuel tank (500 ~ 6600L)
  - ☐ Silent 12 & 24-hour fuel tank
  - ☐ Double-walled fuel tank
  - ☐ Trailer chassis
  - ☐ Air intake/exhaust noise reduction array
  - ☐ Quick switch for built-in and external fuel tanks