

# Technical Specification

## Model: **DS-350K-CSS**

Powered by CUMMINS



### Applicable Standards

ISO 8528-5:2018  
GB/T2820.5-2009  
CE

| General Information               |           | Prime power                                     | Standby power |
|-----------------------------------|-----------|---|---------------|
| Rated Power (kVA)                 |           | 394   | 438           |
| Power Rating (kW)                 |           | 315   | 350           |
| Frequency (Hz)                    |           | 60  |               |
| Engine Model                      |           | 6ZTAA13-G3                                      |               |
| Engine Speed (RPM)                |           | 1800  |               |
| Phase                             |           | 3   |               |
| PF                                |           | 0.8   |               |
| Control System                    |           | Digital   |               |
| Rated voltage (V)                 |           | 120/208<br>(According to customer requirements) |               |
| Fuel tank capacity operating time |           | ≥ 8h @ 75% load                                 |               |
| Fuel Consumption (L/h)            | 110% load | 89  |               |
|                                   | 100% load | 81  |               |
|                                   | 75% load  | 61  |               |
|                                   | 50% load  | 40.5  |               |

### Environmental Conditions

Ambient temperature: +5°C~+40°C  
Altitude: ≤1000m  
Remark: If your conditions are different from the above, please contact our sales.

### Factory Inspection

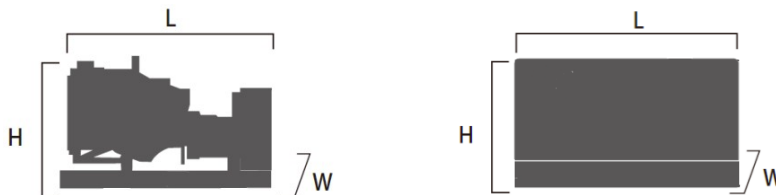
Complete design and quality inspection  
0%, 25%, 50%, 75%, 100%, 110% load test.  
Function test.  
Protection test

### Painting Process

DS Power has the most advanced automatic spraying / powder coating production line, and is equipped with various sandblasting equipment to ensure higher quality.

Canopy painting: Henkel pretreatment process and world famous brand AkzoNobel powder.

Base Frame painting: Sandblasting process and AkzoNobel powder



### Dimension and Weight

| Model                        | DS-350K-CSO<br>Open type | DS-350K-CSS<br>Silent type |
|------------------------------|--------------------------|----------------------------|
| Length (L) mm                | 3030                     | 4200                       |
| Width (W) mm                 | 1360                     | 1600                       |
| Height (H) mm                | 2160                     | 2460                       |
| Dry weight (kg)              | 3000                     | 4500                       |
| Tank capacity (L)            | 900                      | 900                        |
| The loading capacity (40'HC) | 6 units                  | 2 units                    |

Note: Specifications and illustrations are subject to revision without notice.



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## Engine Specifications

| Engine model & manufacturer                        |           | 6ZTAA13-G3 (CUMMINS)   |
|--|-----------|--|
| Emission Certification                             |           | -----  |
| Number of cylinders                                |           | 6  |
| Cylinder arrangement                               |           | In line  |
| Cycle  |           | Four stroke  |
| Aspiration   |           | Turbocharged and Aftercooled                                 |
| Bore x Stroke                                      |           | 130x 163 mm  |
| Displacement                                       |           | 13 L   |
| Compression ration                                 |           | 17: 1  |
| Prime power /speed                                 |           | 340 kW /1800 rpm   |
| Standby power /speed                               |           | 380kW /1800 rpm  |
| Speed governor                                     |           | Electronic   |
| Cooling system                                     |           | Forced Water Cooling Cycle                                   |
| Frequency droop                                    |           | ≤5%  |
| Total lubrication system capacity                  |           | 43.42 L  |
| Coolant capacity                                   |           | 23.1 L   |
| Fuel consumption                                   | 100% load | 200 g/kWh @1800 rpm  |
| Starter motor                                      |           | DC 24V   |
| Charge alternator                                  |           | DC 24V   |
| ◆ Heavy duty diesel engine                         |           | ◆ Starter battery (with lead acid) including rack and cables |
| ◆ Anti-vibration mount                             |           | ◆ Flexible fuel connection hoses                             |
| ◆ Replaceable fuel filter, oil filter & air filter |           | ◆ Exhaust silencer and bellows                               |
| ◆ Cooling radiator and fan                         |           | ◆ Operation manuals and circuit diagram documents            |

## Alternator Specifications

| Alternator             | S4L1D.E4 (STAMFORD) |
|------------------------|---------------------|
| Number of phase        | 3                   |
| Power factor (Cos Phi) | 0.8                 |
| Poles                  | 4                   |
| Insulation type        | H class             |
| Winding Pitch          | 2/3                 |
| IP rating              | IP23                |
| Bearing                | Single bearing      |
| Voltage regulator      | A.V.R               |
| Coupling               | Flexible disc       |

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## Control Panel

### DSE7320MKII

AUTO START & AUTO MAINS FAILURE  
CONTROL MODULES



### Key benefits

- 3 phase mains (utility) sensing and protection (DSE7320 MKII only)
- Automatic load transfer control (DSE7320 MKII only)
- Generator current and power monitoring (kW, kvar, kVA, pf)
- Mains current and power monitoring (kW, kvar, kVA, pf) (DSE7320 MKII only)
- kW and kvar overload and reverse power alarms
- Over current protection
- Unbalanced load protection
- Independent earth fault protection
- Breaker control via fascia buttons

### Key features

- 4-Line back-lit LCD text display
- Multiple Display Languages
- Five key menu navigation
- LCD alarm indication
- Heated display option available
- Customisable power-up text and images
- DSENet expansion compatibility
- Data logging facility
- Internal PLC editor
- Protections disable feature
- Fully configurable via PC using USB, RS232 & RS485 communication
- Front panel configuration with PIN protection
- Fuel and start outputs configurable when using CAN
- 6 configurable DC outputs
- 2 configurable volt-free relay outputs
- 6 configurable analogue/digital inputs
- Support for 0 V to 10 V & 4 mA to 20 mA sensors
- 8 configurable digital inputs
- Configurable 5 stage dummy load and load shedding outputs
- CAN, MPU and alternator frequency speed sensing in one variant
- Real time clock
- Manual and automatic fuel pump control
- Engine pre-heat and post-he)

## Options

| Engine  | Alternator   | Fuel System   | Generating Set   |
|---|--|---|--|
| <ul style="list-style-type: none"> <li><input type="checkbox"/> Water Jacket Preheater</li> <li><input type="checkbox"/> Oil Preheater</li> <li><input type="checkbox"/> Oil manual pump</li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> PMG excitation</li> <li><input type="checkbox"/> Space heater</li> <li><input type="checkbox"/> Winding temperature measuring</li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> 12 / 24 hour base tank</li> <li><input type="checkbox"/> Bunded fuel tank</li> <li><input type="checkbox"/> External fuel tank</li> <li><input type="checkbox"/> Automatic fuel feeding</li> <li><input type="checkbox"/> Switch between external tank and base tank (three-way valve)</li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> Deepsea, ComAp, Smartgen etc. controller</li> <li><input type="checkbox"/> Trailer</li> <li><input type="checkbox"/> Tools with the machine</li> </ul> |

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