

# Technical Specification

## Model: **DS-300K-CSS**

Powered by CUMMINS



### Applicable Standards

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

General Information		Prime power	Standby power
Rated Power (kVA)		344	375
Power Rating (kW)		275	300
Frequency (Hz)		60	
Engine Model		NTA855-G1B	
Engine Speed (RPM)		1800	
Phase		3	
PF		0.8	
Control System		Digital	
Rated voltage (V)		120/208 (According to customer requirements)	
Fuel tank capacity operating time		≥ 8h @ 75% load	
Fuel Consumption (L/h)	110% load	88.5	
	100% load	80.5	
	75% load	60.3	
	50% load	40.2	

### 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

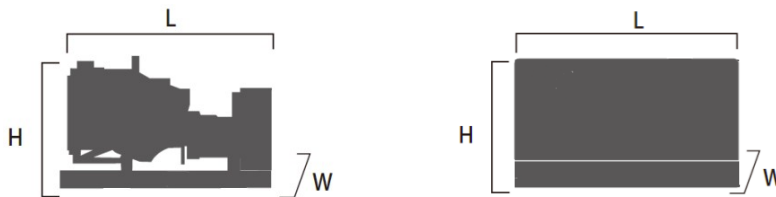
Complete design and quality inspection  
0%, 25%, 50%, 75%, 100%, 110% load test.  
Function test.  
Protection test

### 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-300K-CSO Open type	DS-300K-CSS Silent type
Length (L) mm	3420	3950
Width (W) mm	1150	1330
Height (H) mm	2190	2500
Dry weight (kg)	3140	5100
Tank capacity (L)	530	900
The loading capacity (40'HC)	6 units	2 units

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



# Technical Specification

## Engine Specifications

Engine model & manufacturer		NTA855-G1B (CUMMINS)
Emission Certification		-----
Number of cylinders		6
Cylinder arrangement		In line
Cycle		Four stroke
Aspiration		Turbocharged
Bore x Stroke		140x 152 mm
Displacement		14 L
Compression ration		14.0: 1
Prime power /speed		313 kW /1800 rpm
Standby power /speed		347 kW /1800 rpm
Speed governor		Electronic
Cooling system		Forced Water Cooling Cycle
Frequency droop		≤5%
Total lubrication system capacity		38.6 L
Coolant capacity		20.8 L
Fuel consumption	100% load	231.4 g/kWh @1800 rpm
Starter motor		DC 24V
Charge alternator		DC 24V
<ul style="list-style-type: none"><li>◆ Heavy duty diesel engine</li><li>◆ Anti-vibration mount</li><li>◆ Replaceable fuel filter, oil filter &amp; air filter</li><li>◆ Cooling radiator and fan</li></ul>		<ul style="list-style-type: none"><li>◆ Starter battery (with lead acid) including rack and cables</li><li>◆ Flexible fuel connection hoses</li><li>◆ Exhaust silencer and bellows</li><li>◆ Operation manuals and circuit diagram documents</li></ul>

## Alternator Specifications

Alternator	S4L1S-D4 (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

# Technical Specification

## 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>

DS SERVICIOS MULTIPLES, SRL.  
Calle Sofia Montaño #5, Santa martha, La Venta, SDO.  
TEL: (809) 937- 1701,  
Email: gerencia@plantasgrandes.com  
www.plantasgrandes.com