

Technical Specification

Model: **DS-500K-CSS**

Powered by CUMMINS



Applicable Standards

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

General Information		Prime power	Standby power
Rated Power (kVA)		563	625
Power Rating (kW)		450	500
Frequency (Hz)		60	
Engine Model		KTA19-G3A	
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	132	
	100% load	120	
	75% load	90	
	50% load	60	

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

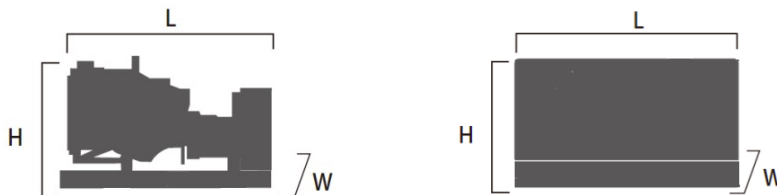
Complete design and quality inspection
0%, 25%, 50%, 75%, 100%, 110% load test.
Function test.
Protection test

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-500K-CSO Open type	DS-500K-CSS Silent type
Length (L) mm	3460	4500
Width (W) mm	1360	1700
Height (H) mm	2300	2527
Dry weight (kg)	4300	5700
Tank capacity (L)	1100	1100
The loading capacity (40'HC)	3 units	2 units

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



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Engine Specifications

Engine model & manufacturer		KTA19-G3A (CUMMINS)
Emission Certification		-----
Number of cylinders		6
Cylinder arrangement		In line
Cycle		Four stroke
Aspiration		Turbocharged
Bore x Stroke		159 x 159 mm
Displacement		18.9 L
Compression ration		13.9: 1
Prime power /speed		507 kW /1800 rpm
Standby power /speed		563 kW /1800 rpm
Speed governor		Electronic
Cooling system		Forced Water Cooling Cycle
Frequency droop		≤3 %
Total lubrication system capacity		50 L
Coolant capacity		30.3 L
Fuel consumption	100% load	201 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	S5L1D-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

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

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

