

Technical Specification

Model: **DS-30K-CSS**

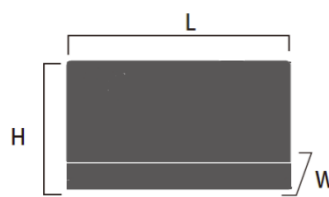
Powered by CUMMINS



Applicable Standards

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

General Information		Prime power	Standby power
Rated Power (kVA)		33	37
Power Rating (kW)		27	30
Frequency (Hz)		60	
Engine Model		4B3.9-G12	
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	10.3	
	100% load	9.4	
	75% load	7	
	50% load	4.7	



Dimension and Weight		
Model	DS-30K-CSS Open type	DS-30K-CSS Silent type
Length (L) mm	2080	2250
Width (W) mm	750	960
Height (H) mm	1220	1300
Dry weight (kg)	800	1390
Tank capacity (L)	170	180
The loading capacity (40'HC)	34 units	22 units

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

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



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Engine Specifications

Engine model & manufacturer		4B3.9-G12 (Cummins)
Emission Certification		-----
Number of cylinders		4
Cylinder arrangement		In line
Cycle		Four stroke
Aspiration		Naturally aspirated
Bore x Stroke		102x 120 mm
Displacement		3.9 L
Compression ration		18: 1
Prime power /speed		33kW/1800 rpm
Standby power /speed		36kW/1800 rpm
Speed governor		Electronic
Cooling system		Forced Water Cooling Cycle
Frequency droop		≤3%
Total lubrication system capacity		10.9 L
Coolant capacity		7.2 L
Fuel consumption	100% load	235 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		UCI.224D(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

- -Data logging facility
- Internal PLC editor
- Protections disable feature
- Fully configurable via PC using USB, RS232 & RS485 communication
- Front panel configuration with PIN protection
- Power save mode
- 3 phase generator sensing and protection
- 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)

Key features

- Configurable power-up mode
- MPU fail delay
- Enhanced graphical user interface
- Drag & drop advanced PLC editor
- MSC ID within PLC GenComm override
- 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
- Unbalanced load protection
- Independent earth fault protection
- Breaker control via fascia buttons
- 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

Options

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

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