

Model: **DS-20K-CM**

Powered by CUMMINS



Applicable Standards

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

General Information		Prime power	Standby power
Rated Power (kVA)		18	20
Power Rating (kW)		18	20
Frequency (Hz)		60	
Engine Model		4B3.9-G11	
Engine Speed (RPM)		1800	
Phase		1	
PF		1	
Control System		Digital	
Rated voltage (V)		120/240 (According to customer requirements)	
Fuel tank capacity operating time		≥ 8h @ 75% load	
Fuel Consumption (L/h)	110% load	7.8	
	100% load	7.1	
	75% load	5.3	
	50% load	3.6	

Environmental Conditions

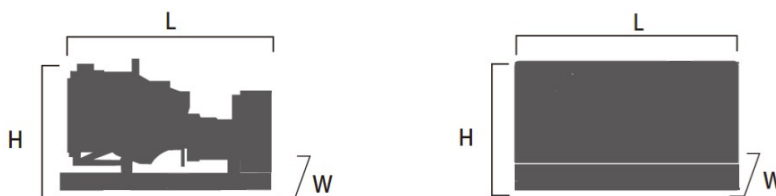
- Ambient temperature: +5°C~+40°C
- Altitude: ≤1000m
- Remark: If your conditions are different from the above, please contact our sales.

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-20K-CG Open type	DS-20K-CG Silent type
Length (L) mm	1950	2290
Width (W) mm	750	990
Height (H) mm	1420	1300
Dry weight (kg)	765	1350
Tank capacity (L)	160	180
The loading capacity (40'HC)	18 units	22 units

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



Engine Specifications

Engine model & manufacturer		4B3.9-G11 (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	23kW /1800 rpm	
Standby power /speed	26 kW /1800 rpm	
Speed governor	Mechanical	
Cooling system	Forced Water Cooling Cycle	
Frequency droop	≤5%	
Total lubrication system capacity	10.9 L	
Coolant capacity	7.2 L	
Fuel consumption	100% load	256 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	
Number of phase	1
Power factor (Cos Phi)	1
Poles	4
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Bearing	Single bearing
Voltage regulator	A.V.R
Coupling	Flexible disc

Control Panel

DSE6120MKII

Auto Mains (Utility) Control Module



Key benefits

- -6 Active DC Output
- -4 analog inputs/digital inputs
- -8-way custom digital input
- -All expansion modules can be connected
- -Can support 0-10V or 4-20mA oil pressure sensor
- -With hierarchical loading function
- -Support EFI and non-EFI engines
- -3 maintenance alarms can be set
- -Engine speed protection
- -Engine warm-up
- -Multiple start-stop cycles can be preset

Key features

- -Built-in PLC logic programming
- -5 menu navigation keys
- -Generator voltage detection
- -mains voltage detection
- -Generator/load power detection (kW, kVA, kVA, pf)
- -Generator overload protection (kW)
- -Generator/load current monitoring and protection
- -Power saving mode
- -With manual closing and opening functions
- -Fuel and start-up output can be flexibly defined when used in EFI engines
- -Real-time clock
- -Fuel pump control function
- -Engine Start Rapid & Stop Rapid
- -Battery voltage monitoring
- -Start the unit when the battery voltage is low
- -Custom remote start signal
- -Two sets of protected winters can be preset
- -Three types of alarm levels can be set: ordinary alarm, electrical trip and shutdown
- -LCD and LED alarm indication
- -100 event records
- -Optional low temperature version (-40 °C)

Options

Engine	Alternator	Fuel System	Generating Set
<input type="checkbox"/> Water Jacket Preheater <input type="checkbox"/> Oil Preheater <input type="checkbox"/> Oil manual pump	<input type="checkbox"/> PMG excitation <input type="checkbox"/> Space heater <input type="checkbox"/> Winding temperature measuring	<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)	<input type="checkbox"/> Deepsea, ComAp, Smartgen etc. controller <input type="checkbox"/> Trailer <input type="checkbox"/> Tools with the machine

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