# Technical Specification



# Model: DS-100K-CSS

Powered by CUMMINS

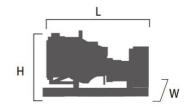


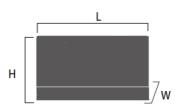


#### **Applicable Standards**

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

General Information		Prime power	Standby power
Rated Power (kVA)		112	125
Power Rating (kW)		90	100
Frequency (Hz)		60	
Engine Model		6BT5.9-G2 (6BT-G75E1)	
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	31.4	
	100% load	28.5	
	75% load	21.4	
	50% load	14.3	





Dimension and Weight				
Model	DS-100K-CSO Open type	DS-100K-CSS Silent type		
Length (L) mm	2475	2905		
Width (W) mm	835	1115		
Height (H) mm	1470	1610		
Dry weight (kg)	1185	1720		
Tank capacity (L)	225	260		
The loading capacity (40'HC)	10 units	8 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











# **Engine Specifications**

Engine model & manufacturer		6BT5.9-G2 (CUMMINS)	
Emission Certification			
Number of cylinders		6 In line	
Cylinder arrangement			
Cycle		Four stroke	
Aspiration		Turbocharged	
Bore x Stroke		102x 120 mm	
Displacement		5.9 L	
Compression ration		17.3: 1	
Prime power /speed Standby power /speed		100 kW /1800 rpm 110 kW /1800 rpm	
Cooling system		Forced Water Cooling Cycle	
Frequency droop		≤5%	
Total lubrication system capacity		16.4 L	
Coolant capacity		7.9 L	
Fuel consumption	100% load	235 g/kWh @1800 rpm	
Starter motor		DC 24V	
Charge alternator		DC 24V	
Heavy duty diesel engine		<ul> <li>Starter battery (with lead acid) including rack and cables</li> </ul>	
<ul> <li>Anti-vibration mount</li> </ul>		<ul> <li>Flexible fuel connection hoses</li> </ul>	
Replaceable fuel filter, oil filter & air filter		<ul> <li>Exhaust silencer and bellows</li> </ul>	

- Replaceable fuel filter, oil filter & air filter
- Cooling radiator and fan

- Exhaust silencer and bellows
- Operation manuals and circuit diagram documents

# **Alternator Specifications**

Alternator	UCI.274E (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**

# 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, kVAr, 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
□ Oil Preheater	<ul><li>PMG excitation</li><li>Space heater</li><li>Winding temperature measuring</li></ul>	□ Bunded fuel tank □ External fuel tank	<ul> <li>Deepsea, ComAp, Smartgen etc. controller</li> <li>Trailer</li> <li>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.dspowered.com

