



BC DIESEL GENERATORS
KAMLOOPS, BRITISH COLUMBIA, CANADA

TECHNICAL DATA



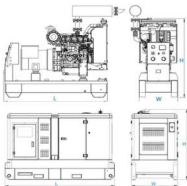
www.bcdieselgenerators.com

60HZ

Rated Power 105Kw
Standby Power 115Kw

Features

- Compact structure with high-strength chassis;
- Easy operation and maintenance, Low cost;
- Excellent performance damping system;
- Compliance with international electrical safety standards of electrical system;
- 8 hours base tank;
- High-performance maintenance-free batteries with isolation switch
- 50°C Radiator;
- Top lifting, Forklift bottom hole design, easy to transport;
- Industrial muffler;
- Noise reduction structure , Low noise;
- Convenient power output interface;
- IP56 (control system)
- Customized design for user



Dimension and Weight

Generating set model	Silent	Open
Length(L) (mm)	3200	2617
Width(W) (mm)	1130	800
Height(H) (mm)	1750	1476
Dry weight (k g)	1700	1293.6
Tank capacity (L)	300	1280

Genset Technical Data

Output frequency	60 HZ
Rated speed	1800 rpm
Prime power	105 KW
Standby power	115 KW
Rated voltage	120/208V or 277/480V
Phase	3
Noise dB(A) @7m	70
Engine model	6BTA5.9-G2
Alternator model	UCI274D
Fuel consumption of 100% load	30 Litres/h
Fuel consumption of 75% load	22.6 Litres/h
Voltage regulation rate	±1%
Random voltage variation	±1%
Frequency regulation rate	±5%
Random frequency variation	±0.5%



ISO9001:2000

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Engine Specifications

Engine model	6BTA5.9-G2
Engine manufacturer	Cummins
Number of cylinders	6
Cylinder arrangement	In-line
Cycle	Four stroke
Aspiration	turbo-charged & Intercooled
Bore Stroke (mm mm)	102 x 120
Displacement (Liter)	5.9
Compression Ratio	17.5:1
Prime power/speed (kW/RPM)	110 /1800rpm
Standby power/speed (kW/RPM)	120 /1800rpm
Speed governor	Electrical
Cooling system	Forced Water Cooling Cycle
Steady speed droop (%)	≤1%
Total lubrication system capacity (L)	16.4
Coolant capacity (L)	10
Fuel consumption at 100% load (g/kWh)	211 (at 1800RPM)
Starter motor	DC24V
Alternator	DC24V

Alternator Specifications

Rated frequency	60 Hz		
Rated speed	1800 rpm		
Alternator model	UCI 274D		
Rated output prime power	117kW		
Efficiency (%)	91.3%		
Phase	3		
Rated voltage	480 V		
Exciter type	Self excitation, Brushless		
Power factor	0.8		
Voltage adjust range	≥5.0%		
Voltage regulation NL-FL	≤±1.0%		
Insulation grade	H		
Protection grade	IP23		
Xd DIR. AXIS SYNCHRONOUS	2.11		
X'd DIR. AXIS TRANSIENT	0.17		
X''d DIR. AXIS SUBTRANSIENT	0.12		
Xq QUAD. AXIS REACTANCE	1.25		
X''q QUAD. AXIS SUBTRANSIENT	0.17		
Optional			
Optional Alternator brand	Leroy Somer		
Optional Alternator model	LSA 44.2 S7		
Exciter type	Self-excited		
Rated output prime power	124KW		



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Control System

DSE7320

NSM-100-7320 is an advanced control module based on micro-processor, It is an Auto Mains (Utility) Failure Control Module(AMF), have been designed to start and stop generating sets that include electronic And non-electronic engines. Include the additional capability of being able to monitor a mains (utility) supply. when main is not available, It can automatically start the engine and close generating sets breaker automatically, Accurately measure various operational parameters and display all values and alarms information on the LCD. In additional, it can automatically open breaker, and shutdown the engine after the main supply recovers.

Main Features

- AMF and ATS and communication and expansion function
- Designed to work with electronic or non-electronic or gas engine simultaneously. (support many kinds of engines ECU).
- Manual, Automatic, Test and remote control mode selectable.
- Monitoring and measuring operational parameters of the mains supply and genset.
- Indicating operation status, fault conditions, all parameters and alarms
- Multiple protections and multiple parameters display.
- Includes 12 inputs and eight outputs. 8 inputs are configurable and 4 outputs are configurable.
- Can be programmed using the front panel or by using the PC software.
- Support twelve languages. The language was edited by customer.
- Graded protection: pre-alarm, shutdown and electrical trip, flexible setting.
- The module can be pre-set for four operating modes and protecting parameters.
- Add DSE860 or DSE865 module, internet network monitoring can be realized.
- The firmware can be updated automatically, so customer can have the latest version.



The control module display

- Generator voltage
- Generator frequency
- Battery voltage
- Engine speed
- Load current
- Generator KVA, KW, PF
- Engine run-time Hours
- Engine oil pressure
- Engine coolant temperature
- Real time clock for time and date, overall runtime

