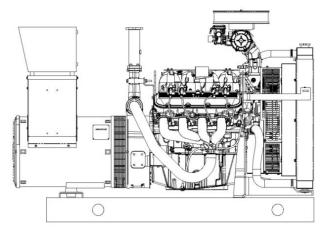
70DBSN



DIESEL POWER GENERATOR SET

Marine Prime Rating



Drawing is for reference only.

STAMFORD DBaudouin

Standard Features

- SENECA provides one-source responsibility for the generating system and accessories. All generator sets and components are factory built, and production tested.
- Generator set load acceptance ratings are as per CSA282 and NFPA 110
- Eighteen months limited warranty covers all systems and components. Two and five year extended warranties are available.
- Baudouin Diesel engine that meets the latest EPA emissions requirements
- Stamford brushless synchronous alternators with dynamic balancing and four pole construction
- Permanent Magnet (PM) generator provides superior short circuit capability
- Microprocessor based controller that's easy to use and field programmable for customized installations
- Integral Vibration isolation rubbers eliminate the need of vibration spring isolators
- Generator sets are prototype tested and production tested to ensure easy startup
- Heavy duty construction that's designed for use in prime or standby applications
- · Assembled in Canada

Voltage	Phase	P.F.	KW	KVA	Amps	Temp. Rise	Alternator
120/240V	1	1	70	70	292	90/50C	UCM274F
120/208V	3	0.8	70	87.5	243	90/50C	UCM274C
120/240V	3	0.8	70	87.5	210	90/50C	UCM274C
277/480V	3	0.8	70	87.5	105	90/50C	UCM274C
346/600V	3	0.8	70	87.5	84	90/50C	UCM274C

Other configurations are available. Please contact factory if your intended application is not listed.

RATINGS: Standby ratings are continuous for the duration of any power outage. No overload capacity is specified at this rating. Prime ratings are continuous per BS 5514, DIN 6271, ISO-3046, and IEC34-1 with 10% overload capacity one hour in twelve hours. Larger alternators may be used to meet special application requirements. SENECA reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. Contact your local SENECA generator distributor for availability.

GENERAL GUIDELINES FOR DERATION: ALTITUDE: Derate 1.5% per 1000 ft. (305 m) elevation above 3300 ft. (1006 m). TEMPERATURE: Derate 0.5% per 10°F (5.5°C) temperature above 77°F (25°C).

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SENECA POWER GENERATION

ALTERNATOR

Manufacturer

Design

Stator Rotor

Insulation system

Standard temperature rise

Exciter type

Phase rotation

Alternator cooling

AC waveform total harmonic distortion

Stamford

Brushless, 4 pole, Revolving field

2/3 pitch

Single Bearing, Flexible disc

Class F

90/50C

Torque match (shunt) standard

PMG available

A(U), B(V), C(W)

Direct drive centrifugal blower fan < 3.5% no load to full linear load

< 2.5% for any single harmonic

ENGINE SPECIFICATIONS

Manufacturer

Model

Number of Cylinders

Bore and Stroke - in. (mm)

Displacement – in³ (L)

Compression Ratio

Valves per Cylinder--Intake/Exhaust

Combustion System

Engine Type

Aspiration

Engine Crankcase Vent System

Baudouin

4M10G83/6

4

4.13 x 4.64 (105 X 118)

249.40 (4.087)

17.5:1

2/2

Compression ignition

Inline, 4 cycle

Turbo-charged

Open

EXHAUST SYSTEM

Exhaust Flow – ft³/min (m³/min)

Exhaust Temperature – °F (°C)

Max. Exhaust Restriction – in. H₂O (kPa)

1603 (26.27)

1022 (550)

20.09 (5)

FUEL SYSTEM

Governor Type

Injection Pump

Fuel Filter

Electronic

Bosch Common-rail Pump

Full flow, Cartridge type

LUBRICATING SYSTEM

Oil Press. at Rated Speed - psi (kPa)

Oil Pressure at Low Idle – psi (kPa)

Oil Capacity (with filter) - USGal (L)

Oil temperature (Max.) $- {}^{\circ}F ({}^{\circ}C)$

36.26 (250) 14.5 (100) 2.27 (8.6)

2.27 (0.0)

COOLING SYSTEM

Engine Heat Reject. – BTU/min (kW)

Ambient Operating Temperature - °F (°C)

Coolant Flow – USgal/min (L/min)

Coolant capacity, including Radiator - USgal (L)

Pressure Cap - psi (kPa)

275 (135)

TBD

TBD

122 (50)

4.73 (18)

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SENECA POWER GENERATION

AIR SYSTEM

FUEL CONSUMPTION

 Diesel, L/Hr

 100%
 21.57

 75%
 16.46

 50%
 10.99

 25%
 6.75

ENGINE PERFORMANCE DATA

Rated Power, Diesel --hp (kW) 114 (85)
Rated Speed -- RPM 1800
Break Mean Effective Pressure -- MPa TBD

Block Heater Data

ManufacturerOEMModelGlow PlugVoltage12VPowerNA

Battery, Charger and Electrical

 Battery Charger
 Vulcan electric inc.

 Output Voltage
 12 VDC

 Output Current
 10A

 Battery PN
 624MF

 Battery CCA
 650

 Off Shore Panel
 CSA Standard

Engine Controller Panel



Engine Control & Monitoring

- Auto Start Control: Cycle cranking with integral speed sensor from engine mounted magnetic pick-up for crank disconnect and over speed protection
- 6 Programmable Binary Fault Alarms/Shutdown Inputs:
 Alarms/shutdowns to meet/exceed requirements of NFPA 99, 110 & CSA 282
- Engine Parameter Display: Digital display of oil pressure, coolant temp, battery voltage, RPM, and fuel level
- 5 Programmable Outputs (when AMF option is utilized, 2 outputs are dedicated for AMF control): programmable functions such as common alarm and shutdown contacts for remote indication
- Configurable Set Points/Time Delays: Password protected access to set time delays (engine start, crank, rest, cool down, oil bypass etc)
- Event Logging: Standard 150 event logs with time/date stamp capability utilizing on board real-time clock with battery back-up

SENECA POWER GENERATION

Genset Standard Features

- □ Steel Base
- □ 90C Temperature Rise Alternator
- □ Block Heater, Isolation Valve
- □ Battery, NOCO charger, rack and Cables
- □ Standard Factory Test
- □ E100 Deep Sea controller
- □ 1" Spring Isolator
- □ 18 Months Warranty

Available Options

Open Unit

- □ Exhaust Silencer, Critical Grade
- □ Exhaust Silencer, Hospital Grade
- □ Exhaust Silencer, Hospital Plus Grade
- □ Special Silencer

Cooling System

Radiator Duct Flange

Electrical System

- □ Battery Charger, Vulcan
- Battery Charger, Thomson technology
- $\hfill\Box$ Battery Charger, Special Requirement
- □ Battery Heater
- □ 150 C Temperature Rise Alternator
- □ 105 C Temperature Rise Alternator
- □ 80 C Temperature Rise Alternator
- □ Alternator Strip heater
- □ RTD

Engine and Generator

- □ Air Cleaner, Heavy Duty
- □ Air Cleaner Restriction Indicator
- □ Load Bank Breaker
- □ Line Circuit Breaker with Shunt Trip, Aux Switch
- □ 2" Spring Isolators
- □ Seismic Spring Isolators

Governor

- Voltage Adjust Potentiometer
- □ Voltage Regulator Relocation Kit

Controller

- □ Common Failure Relay
- Customer Connection
- Remote Annunciator Panel
- □ Dry Contact Kit (Isolated Alarm)
- Extension Wiring Harness for Remote Mounting
- □ Remote Emergency Stop
- □ Run Relay
- Available harness in multiple lengths to meet setup

Enclosure

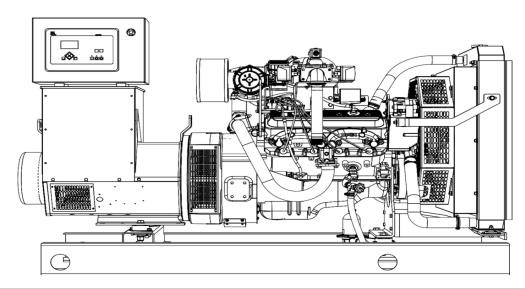
- □ Walk-In Enclosure
- □ ISO Sea Freight Enclosure
- □ Skin Tight Enclosure
- □ Sound Attenuated 75 dBA at 7m
- □ Sound Attenuated 65 dBA at 7m
- □ Weather Proof Enclosure
- □ CSA 282 Compliance Kit

Warranty

- 2 Year Extended Warranty
- □ 5 Year Extended Warranty

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NOTE: These are provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.



Open Skid Genset

Size: 81.31" X 31" X 43.77"

Weight: 2418.2 lbs Sound Rating: TBD

CONTACT

Sales

info@genrep.com 1-877-743-6737 **Service**

info@genrep.com 1-877-743-6737 **Parts**

parts@genrep.com 1-877-743-6737 **Support**

info@genrep.com 1-877-743-6737

Assembled in Canada by

