Standby Generator Liquid -Cooled Gas Engine



ADVANCE SERIES PD20REG-DB LPG/Natural Gas STEEL/GRAY

Features and Benefits

■ Innovative Design and Testing

Designed for easy installation with attractive, compact structure and reliable performance. Commitment to component testing, reliability testing, environmental testing, destruction and life testing. With the weather tool kit help, unit can run at the ambient temp of -29.9°C (-20°F.).

Low Noise Level

Quite operation, critical grade muffler is mounted inside the unit to lower noise and prevent injuries.

Lubrication System

High-performance oil pump and large capacity oil pan provides long engine life.

Weight, Size & Sound

Weight: 772lbs (350kg)
Size: 54.17"x31.89"x37.8"
Sound: 72dB(A) at 7m



■ Radiator System

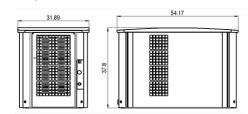
Liquid cooled system with large capacity radiator ensures superior working performance, and continuous operating above 100hrs at the ambient temp of 50°C (122°F).

■ Emissions

Meets emission regulations for U.S. Environmental Protection Agency (EPA) phase3, meets UL2200 standard. Compliancewith cETL.

Packaging

Makes for easy and reliable transportation and installation.



| Model | Phase | Voltage (V) | Frequency (Hz) | Rated amps * (NG/LPG Fuel) | Circuit Breaker (Amps) |
|-----------|-------|-------------|-------------------|-------------------------------|---------------------------|
| PD20REGDB | 1 | 120/240 | 60 | 75.0/83.3 | 84 |
| | 3 | 120/208 | 60 | 62.5/69.5 | 70 |





GENERATOR SPECIFICATIONS

| Rated Power (NG/LPG) | Single | 18KW/20KW |
|-----------------------|--------|-----------------|
| hated Power (NG/LPG) | Three | 22.5KVA/25KVA |
| M. D. (vene) | Single | 19.8KW/22KW |
| Max Power(NG/LPG) | Three | 24.7KVA/27.5KVA |
| Power Factor | Single | 1.0 |
| Power Factor | Three | 0.8 |
| Rated Frequency (Hz) | | 60 |
| Rated Speed (rpm) | | 3600 |

ENGINE SPECIFICATIONS

| Manufacturer /Model | Seneca Sentry V | |
|--|-------------------------------------|--|
| Engine Type | 4 Cylinders, 4 Stokes | |
| Displacement | 0.998 Liters (60.9 in) ³ | |
| Bore | 65.5 mm(2.52 in) | |
| Stroke | 74 mm(2.91 in) | |
| Compression Ratio | 9.5:1 | |
| Ignition system | ECM | |
| Intake Air System | Naturally Aspirated | |
| Starter motor rated voltage | DC 12V/0.8KW Electrical start | |
| Battery charging alternator | DC 14V/70A | |
| Oil capacity | 4.0 liters(244.1 in) ³ | |
| Air cleaner type | Dry | |
| Recommended cold cranking amps: (CCA) rating for—18°C (0°F) | 550 | |

GENERATOR SET PERFORMANCE

| Governor regulation class | ISO 8528 Part 1 Class G2 |
|------------------------------------|--------------------------|
| Governor type | Electronic |
| Voltage regulation | ±1.0% |
| Random voltage variation | ±1.0% |
| Frequency regulation | Isochronous |
| FFrequency regulation, steady stat | ± 0.5% @ 60 Hz |

SOUND EMISSIONS

| Sound output in dB(A) at 23 ft (7 m) with Generator in exercise mode* | 64 |
|---|----|
| Sound output in dB(A) at 23 ft (7 m) with Generator at normalOperation* | 72 |

^{*}Sound levels are taken from the front of the generator. Sound levels taken from other sides of the generator may be higher depending on installation parameters

ALTERNATOR SPECIFICATIONS

| Rated Power | 20KW |
|-------------------------|------------------------------|
| Alternator Type | Synchronous, revolving field |
| Pole | 2 pole |
| Rotor Insulation Class | F |
| Stator Insulation Class | F |
| Protection Level | IP23 |
| Winding Material | Copper |
| Sea level | ≤3280ft |
| Coupling | Direct coupling |

ENGINE COOLING SYSTEM

| Cooling system | Closed Liquid Cooled |
|--------------------|----------------------|
| Coolant Capacity | 5L |
| Coolant Temp Range | -25°C∼106°C |
| Radiator Fan | 7 BladeФ380 |

FUEL SYSTEM

| Fuel Type | Natural Gas or LPG |
|--|----------------------|
| Fuel supply pressure, kPa (in.H ² O): | NG:1.2—3.5 (5-14) |
| r dei supply pressure, kra (III.11 O). | LPG: 1.7—3.5 (7-14) |
| Fuel pipe Size | G 3/4pipe |
| Fuel Pipe Length | <33ft |
| Fuel consumption @ 50% (NG) | 178ft [∤] h |
| Fuel consumption @ 100%(NG) | 286ft/h |
| Fuel consumption @ 50%(LPG) | 92.6ft³/h |
| Fuel consumption@ 100%(LPG) | 147ft∛h |

Nominal fuel rating: Natural gas: 37 MJ/m 3 (1000 Btu/ft 3)

LPG: 93MJ/m³ (2500 Btu/ft³)

LPG conversion factors: 8.58 ft³= 1 lb.

 $0.535 \text{ m}^3 = 1 \text{ kg}$ $36.39 \text{ ft}^3 = 1 \text{ gal}.$

UNIT DIMENSIONS AND WEIGHTS

| Unit Weight (lbs) | 772 |
|------------------------|--------------------|
| Gross Weight (lbs) | 849 |
| Unit Size (in) | 54.17×31.89×37.8 |
| Packing size(in) | 57.87×35.4×43.3 |
| Packing | Carton+Metal Crate |
| 20/40Container Loading | 14/30 |
| | |

NOTE: Dimensions are provided for reference only and should not be used for planning installation.

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CONTROLLER FEATURES

- LCD display, easy to operateSystem voltage/ frequency
- selection and engine configuration
- Maintain steady state speed
- High engine temperature
- Low oil pressure
- Overspeed/underspeed
- Crank cycle status
- Overvoltage/undervoltage
- Charging Fail





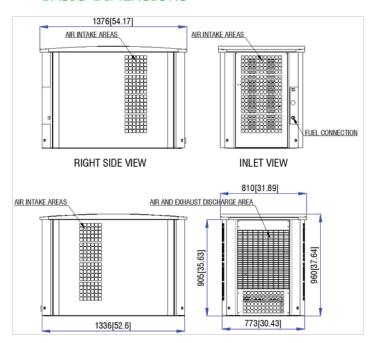
ACCESSORIES INCLUDED

- Includes Automatic Transfer Switch
- Battery Charger

AVAILABLE ACCESSORIES

- Battery Heater
- Oil Heater
- Battery

BASIC DIMENSIONS



Note: This outline drawing is provided for general reference only and is Notintended for use in design or installation. For more information, see Operators and Installation manuals or contact your distributor or dealer for assistance.

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