

SZ-30



2.8L Gaseous Generator— Natural Gas/LPG

SZ Series 30kW



EPA Emissions Compliant

Standard Features

- Zenith Engine Model **ZPP NA 428**
- AC, Single Bearing direct coupled Alternator with Class 'H' insulation, Sized for 130°C Temperature Rise
- Control Panel with Auto-Start -Stop Basler DGC-2020
- Engine and Alternator mounted to aluminum base on vibration isolators
- Radiator sized for 120°F ambient clearance
- Thermostatically controlled Jacket Water Heater.
- High Coolant Temp., Low Oil pressure safety shutdowns.
- Dry Type Air Cleaner
- 12-VDC Starter, Engine mounted Battery Charging Alternator, Battery Cables and Rack along with Grounding Strap
- Battery Charger—6 Amp
- Complete set owner/operator, engine, alternator and accessory manuals



Sample unit shown w/o exhaust silencer

Generator Ratings—1800 RPM Natural Gas/LPG

| Voltage | Ph | Hz | Standby Output kW (kVA) LPG | Standby Output kW (kVA) Natural Gas | Standby Max Amp Output | Wires |
|---------|----|----|-----------------------------|-------------------------------------|------------------------|-------|
| 120/240 | 1 | 60 | 30 (30) | 30 (30) | 125 | 12 |
| 120/208 | 3 | 60 | 30 (37) | 30 (37) | 104 | 12 |
| 120/240 | 3 | 60 | 30 (37) | 30 (37) | 90 | 12 |
| 277/480 | 3 | 60 | 30 (37) | 30 (37) | 45 | 12 |

Equipment & Options



Additional Gen-set Options

- Mainline circuit breaker (s)
- Permanent Magnet Generators (PMG) with Voltage Regulator upgrade
- Low coolant level switch
- Starting batteries
- 17 Light remote enunciator panel
- Powder coated steel sub base
- 120V Receptacle for battery charger and / or coolant heater
- Transfer switches
- UL 2200 Certification (Ask your representative for availability)

*Stand by ratings are applicable for the duration of any power outage. No overload is available at these ratings. Prime ratings are continuous per BS 5514, DIN 6271, ISO3046 & IEC 34-1. Overload capacity on prime-power ratings is 10% for one hour in each twelve hours of operation. All single phase ratings are based on a 1.0 power factor, three (3) phase ratings based on a 0.8 power factor. Ratings are established based on 85°F (29°C) and an elevation of 1,000 feet (305 meters). Please consult your Stateline representative for information concerning derates for temperature, altitude & humidity.

Manufactured by:

Stateline Power Corp • 650 Pine Street • Greenville, OH 45331 • 800-524-8344 www.statelinepower.com

SZ-30 Technical Data



Engine Specifications

Model: ZPP NA 428

Direct injected, In-line 4 cycle, 4 Cylinder

Naturally Aspirated, Dry type Air Cleaner

Max. Power.....37 kWm (50 Hp) @ 1800 RPM

Cubic Capacity.....2.8 L

Bore & Stroke.....3.87" x 3.58" (98.4 mm x 91.0 mm)

Compression Ratio.....9.5:1

Governor type.....Electronic

Frequency Regulation.....Isochronous, Steady-State ± 0.5%

Oil capacity Total system.....5 Qts. (4.7 liters)

Coolant capacity w/ Radiator.....3 Gal. (11.35 liters)

Installation Data

Air requirement:

Air Flow for Rad CFM (m³/min.).....7115 (201)

Exhaust System:

Recommended Outlet size.....2-1/2" (63.5mm)

Gas Temp. (stack).....1403°F / 762°C

Gas Volume @ stack Temp. CFM (m³/min.).....571 (16.2)

Max. allowable back pressure.....40.7 in. H₂O / 10.1kPa

Fuel Consumption:

| Load Percentage (%) | NG 1000 Btu/ft ³ | | | LPG 2500 Btu/ft ³ | | |
|---------------------|-----------------------------|-----|-----|------------------------------|-----|-----|
| | 50 | 75 | 100 | 50 | 75 | 100 |
| Cu ft./h | 203 | 305 | 365 | 80 | 121 | 162 |

Fuel Supply Line inlet.....1-1/4" NPT

Pressure.....7-11 in. H₂O

General:

Electronic Ignited, Breaker less

12V Starter, 45 Amps Alternator DC output Electric System

Recommended Battery.....12V, 780 CCA

Recommended Oil.....SAE 5W-30 for 0°F and above

Alternator Specifications

| Type | Pole | Voltage Regulation | Class Insulation | Rated Temp. Standby | Coupling | Load Acceptance |
|-----------|---|--|------------------------|---------------------------|-------------------------------------|-----------------------------|
| Brushless | 4 Pole Rotating Field | +/- 1%, Volts/Hz, Electronic, EMI filtered | 'H' to NEMA MG-1 -1.66 | 130°C Rise / 40°C Ambient | SAE Adapter, Flexible Disc, Direct. | One Step, 100% per NFPA 110 |
| Features | Self ventilated drip-proof construction. Superior voltage waveform achieved by a 2/3 pitch and skewed rotor. Vacuum-impregnated windings with fungus-resistant epoxy for dependability and long-life. Compliance with NEMA, IEEE and ANSI standards for temp. rise. Sustained short-circuit capability enabling down-line circuit breakers to trip without collapsing the generator field. No load to full-load regulation of +/- 2%. | | | | | |

Control Panel Specifications

DGC2020

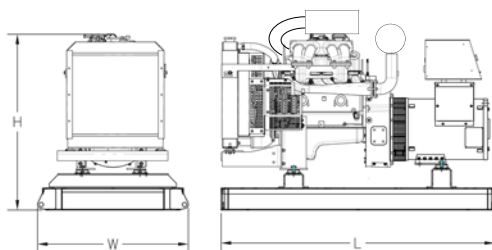
- Microprocessor Based, Navigation key with large LCD display
- Event Recording
- Transfer Switch Control (main failures)
- SAE J1939 CANBUS Communication
- Multilingual Capability
- Suitable for Rental application
- Remote Communication capability

Operational features

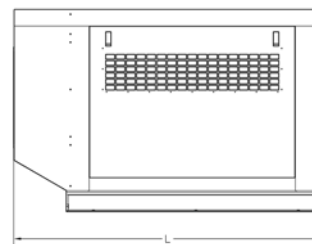
- Alternator Protection: under/over voltage, under/over frequency and Over Load
- Engine Protection: Low oil pressure, High coolant temperature, Over speed & over crank, Sender Unit failure, Fuel Leak / Fuel sender Failure, Battery Charger Failure
- All protections are programmable as Alarms or Pre-alarms
- Operating Power: Nominal 12-24 Vdc

- Consumption 14.2W run Mode
- Metering (ample range): Volts, Current, Hz, Watts, VA, Pf Oil Pressure, Coolant Temperature, RPM, DC Volts, Fuel Level, Engine running time
- Engine Control with Timers
- External remote start input (on or off load)
- 16 programmable contact inputs
- 4 Contact outputs

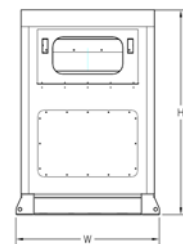
Dimensions & Weight



Open: (inches) 62L x32W x48H Weight (lbs.) 1280



Deluxe: (inches) 75L x32W x49H



Weight (lbs.) 1540