

SPECIFICATION SHEET

Power Ratings	Star	ndby	Prime				
Gaseous Fuel	kW	kVA	kW	kVA			
Natural Gas (NG)	40.0	50.0	36.0	45.0			
VPG	40.0	50.0	36.0	45.0			
Ampage 0.8 PF 208V	13	39	125				
12-wire voltages: 1P = 120/240, 3P = 120/208, 120/240, 480/277							

Rating Definitions: Rated for 1800 rpm.

Standby 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).

STANDARD FEATURES:

Tradewinds Power Corp (TPC) Gaseous ZENITH generator packages complete with mounted auto control panel, gas connections, air cleaners, exhaust silencers, and other accessories mounted in a weather protective enclosure. All TPC systems and components are prototyped, assembled and tested within a purpose built packaging, manufacturing, and test facility.

Engine:

- · ZENITH ZPP NA 428 gaseous engine
- · Full ECU engine control with coil-on-plug variable timing ignition
- · Integrated knock sensing and control
- · Heavy duty rated for standby and continuous prime power operation
- · Cooling system capable of operation at 120°F ambient
- ZENITH 4-cycle gaseous-fueled engine is constructed for long-life, and heavy-duty operation, is EPA certified, spark-ignited, and designed for maximum reliability and durability.
- · Water-cooled and stoichiometric with replaceable dry cylinder liners
- Cast iron block and heads with overhead valve configuration
- · Thermostatically controlled jacket water heater

Alternator:

- · Marathon 4-pole, 12-wire brushless generator, single bearing
- Alternators are oversized with volts per hertz tracking with PMG for enhanced motor starting for engineers to standard on one package
- Superior voltage waveform achieved by a 2/3 pitch and skewed rotor.
- Vacuum-impregnated windings with fungus-resistant epoxy for dependability and long-life
- Sustained short-circuit capability enabling down-line circuit breakers to trip without collapsing the generator field

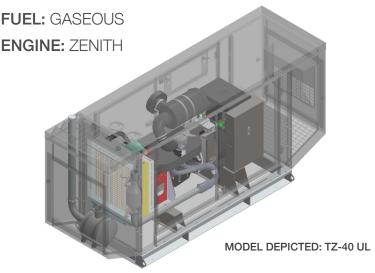
Starting System:

- 12-VDC Starter
- · Engine mounted Battery Charging Alternator
- · Battery Cables and Rack along with Grounding Strap

Enclosure and Arrangement of Complete Assembly:

- · Engine and generator close coupled mounted on vibration isolators
- Weather Protective Enclosure constructed of Marine Grade Aluminum 0.125 thickness, SS Hardware, white powder coat paint finish on both sides, sound Insulation resistant to high temperatures, fuel and oil, hinged / removable / keyed alike doors
- · Residential rated interior mounted exhaust silencer kit
- · Vertical radiator and exhaust discharge
- · Oil & Coolant Drain Lines with Brass Ball Check Valves
- · 175mph wind load rating

UL2200 GASEOUS GENERATOR SET



AUTOMATIC ENGINE CONTROLLER DGC2020:

- · Automatic engine controller with analog display of all functions
- · Microprocessor Based, Navigation key with large LCD display
- · SAE J1939 CANBUS Communication
- · Event Recording
- · Transfer Switch Control (main failures)
- · Alternator Protection: under/over voltage, under/over frequency
- Engine Protection: Low oil pressure, High coolant temperature, Over speed & over crank, Sender Unit failure, Fuel Failure sensor, Battery Charger Failure
- · All protections are programmable as Alarms or Pre-alarms
- Metering (ample range): Volts, Current, Hz, Watts, VA, Pf, Oil Pressure, Coolant Temperature, RPM, DC Volts, Fuel pressure, Engine running time
- · Engine Control with Timers
- · External remote start input (on or off load)
- 16 programmable contact inputs 7 Contact outputs

SCADA interface points:

- No fuel
- · Low battery charging voltage
- Engine running
- Common engine alarm
- Switch in Emergency Position



DGC-2020 DIGITAL CONTROLLER

OPTIONAL EQUIPMENT:

- · Low coolant level switch
- · Water separator fuel filter
- · Space heater
- Generator drip covers
- · 17-light remote annunciator panel

WARRANTY:

- Engine covered under the original equipment manufacturer's warranty
 consult Tradewinds Power Corp for details
- Complete package supplied with 2-year limited warranty

The manufacture reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.





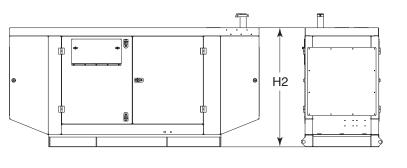
Zenith UL2200 GASEOUS GENERATOR SET

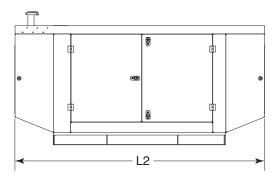
Manufacturer ZENITH Model ZPP NA 428 Emissions EPA Tier 3 Engine speed (rpm) 1800 Max. (Cont.) HP Power 1800 rpm LPG 50.0 (79.6) NG 46.0 (75.1) Cyclinder arrangement In-line Combustion system Spark Ignition air-valve mixer Aspiration Natural Engine type Gaseous 4-stroke Fuel NG and LPG Number of Cylinders 4 Displacement in³ (liters) 170.8 (2.8) Bore and Stroke inches (mm) 3.874 X 3.583 (98.4 x 91.0) Cooling Water-cooled Governor Electronic- closed loop control
Emissions Engine speed (rpm) 1800 Max. (Cont.) HP Power 1800 rpm LPG 50.0 (79.6) NG 46.0 (75.1) Cyclinder arrangement In-line Combustion system Spark Ignition air-valve mixer Aspiration Natural Engine type Gaseous 4-stroke Fuel NG and LPG Number of Cylinders 4 Displacement in³ (liters) Bore and Stroke inches (mm) 3.874 X 3.583 (98.4 x 91.0) Cooling Water-cooled
Engine speed (rpm) Max. (Cont.) HP Power 1800 rpm LPG 50.0 (79.6) NG 46.0 (75.1) Cyclinder arrangement In-line Combustion system Spark Ignition air-valve mixer Aspiration Natural Engine type Gaseous 4-stroke Fuel NG and LPG Number of Cylinders 4 Displacement in³ (liters) Bore and Stroke inches (mm) 3.874 X 3.583 (98.4 x 91.0) Cooling Water-cooled
Max. (Cont.) HP Power 1800 rpm LPG 50.0 (79.6) NG 46.0 (75.1) Cyclinder arrangement In-line Combustion system Spark Ignition air-valve mixer Aspiration Natural Engine type Gaseous 4-stroke Fuel NG and LPG Number of Cylinders 4 Displacement in³ (liters) Bore and Stroke inches (mm) Cooling Water-cooled
Cyclinder arrangement Combustion system Spark Ignition air-valve mixer Aspiration Engine type Gaseous 4-stroke Fuel NG and LPG Number of Cylinders 4 Displacement in³ (liters) Bore and Stroke inches (mm) Cooling Vater-cooled
Combustion system Aspiration Natural Engine type Gaseous 4-stroke Fuel NG and LPG Number of Cylinders Displacement in³ (liters) Bore and Stroke inches (mm) Cooling Spark Ignition air-valve mixer Aspiration 170.8 (2.8) 170.8 (2.8) Water-cooled
Aspiration Ratural Engine type Gaseous 4-stroke Fuel NG and LPG Number of Cylinders 4 Displacement in³ (liters) Bore and Stroke inches (mm) Cooling Natural 170.8 (2.8) 3.874 X 3.583 (98.4 x 91.0) Water-cooled
Engine type Gaseous 4-stroke Fuel NG and LPG Number of Cylinders 4 Displacement in³ (liters) Bore and Stroke inches (mm) Cooling Water-cooled
Fuel NG and LPG Number of Cylinders 4 Displacement in³ (liters) 170.8 (2.8) Bore and Stroke inches (mm) 3.874 X 3.583 (98.4 x 91.0) Cooling Water-cooled
Number of Cylinders Displacement in³ (liters) Bore and Stroke inches (mm) Cooling Water-cooled
Displacement in³ (liters) Bore and Stroke inches (mm) Cooling 170.8 (2.8) 3.874 X 3.583 (98.4 x 91.0) Water-cooled
Bore and Stroke inches (mm) 3.874 X 3.583 (98.4 x 91.0) Cooling Water-cooled
Cooling Water-cooled
Governor Electronic- closed loop control
Starting aids NA
Compression ratio 9.5 : 1
Air cleaner type Medium duty dry type
Exhaust Silencer dBA 80dBA
Fuel switch Fuel Cut-off Valve
COOLING SYSTEM FOR OPERATING AT 120° AMBIENT:
Cooling System Water-cooled
Engine Coolant Capacity quarts (Liters) 8.32 (7.8)
Fan Belt driven pusher fan
Radiator Engine mounted
Air flow - lb/hr NG (LPG) 311.0 (320.2)
Air flow - lb/hr NG (LPG) 311.0 (320.2) LUBRICATING SYSTEM:
LUBRICATING SYSTEM:
LUBRICATING SYSTEM: Total lubricating capacity quarts (Liter) 4.0 (3.8)

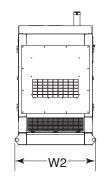
ENGINE ELECTRICAL SYSTEM						
ENGINE ELECTRICAL SYSTEM:						
Starting motor voltage	12 volt					
Charger	65 A Alternator with DC output					
Wet Cell Battery	Lead Acid					
ALTERNATOR:						
Configuration	Brushless, 12-wire, 4-pole					
Frequency	60 Hz					
Voltage regulation	+ / - 1%, V/Hz, Electronic, EMI filtered					
No load to full load voltage regulation	+/- 0.5%.					
Coupling	SAE Adapter, Flexible Disc, Direct					
Bearing	Single					
Manufacturer	Marathon					
Model	431-6206					
Load acceptance	One Step, 100% per NFPA 110					
Compliance	NEMA, IEEE & ANSI for temp. rise					
Construction	Self ventilated drip-proof					
FUEL CONSUMPTION: LB/HR NG (LPG) STANDBY RATING						
100%	107.0 (72.0)					
75%	ТВА					
50%	ТВА					
25%	ТВА					
CONTROL PANEL SPECIFICATIONS:						
Model	DGC2020					
Microprocessor based	Navigation key & large LCD display					
Operating power	Nominal 12-24 VDC					
Consumption	14.2W run mode					
Remote communication capability	Optional					
ENCLOSURE AND ARRANGEMENT OF COMPLET	TE ASSEMBLY:					
Coupling	Close coupled to flywheel flange					
Enclosure	Aluminum for weather protection					
Base arrangement	Rigid steel base frame with AVMs					
Dade arrangement	The steer base frame with Avivis					

DIMENSIONS & ARRANGEMENT DRAWING UL2200 MODEL: TZ40 UL

Spill containment







For Oil and Coolant

KEY DIMENSIONS AND WEIGHT BASIC OPEN SET, SOUND ENCLOSURE AND MOUNTED ON DOT TRAILER (* = Option Equipment)										
Description (inches)		Height	,	Width	ı	Length	Dry weight lbs	Wet Weight Ibs	Sound dBA	
Open Set	Н1	-	W1	-	L1	-	-	-	82	
Enclosed Set *	H2	58.0	W2	36.0	L2	122.0	1330	1388	68	

TRADEWINDS POWER CORP • 5820 NW 84th Avenue • Miami • Florida 33166

Call: 800.223.3289 or email: info@tradewindspower.com