

SPECIFICATION SHEET

Power Ratings	Standby					
Gaseous Fuel	kW	kVA				
Natural Gas (NG)	250.0	312.5				
Amperage 0.8 PF 208V	867.4 NG					
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 TA120R 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:

- · 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

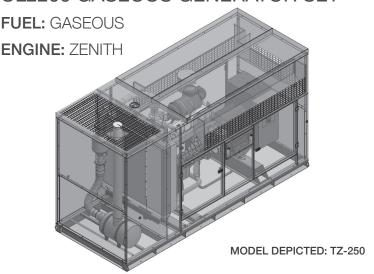
Starting System:

- 24-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.



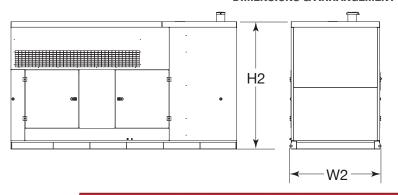
Zenith UL2200 GASEOUS GENERATOR SET

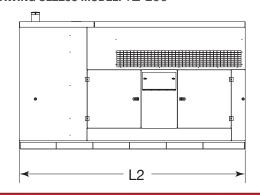
ENGINE SPECIFICATION				
Manufacturer	ZENITH			
Model	ZPP TA 6120			
Emissions	EPA Tier 3			
Engine speed (rpm)	1800			
Max. Nominal Engine hp 1800rpm	358HP			
Cyclinder arrangement	Inline			
Combustion system	Spark Ignition			
Aspiration	Turbo-charged Aftercooled			
Engine type	Gaseous NG			
Gaseous Fuel	Air-valve Mixer based fueling			
Number of Cylinders	6			
Displacement in ³ (liters)	722.5 (11.8)			
Bore and Stroke inches (mm)	5.04 X 6.02 (128 x 153)			
Cooling	Water-cooled			
Governor	Electronic Throttle Body			
Starting aids	NA			
Compression ratio	11.1:1			
Air cleaner type	Medium duty dry type			
Exhaust After-treatment	Iline catalyst			
Fuel switch	Fuel Cut-off Valve			
COOLING SYSTEM FOR OPERATING AT 120° AMB	ENT:			
Cooling System	Water-cooled			
Engine Coolant Capacity quarts (Liters)	TBA			
Fan	Belt driven pusher fan			
Radiator	Engine mounted			
Air flow - lb/hr NG	2380			
LUBRICATING SYSTEM:				
Total lubricating capacity quarts (Liter)	39.1 (45.0)			
Recommended lubricating oil grade	SAE 5W30			
Oil Pressure – psi (bars)	20 PSI			
Maximum Allowable Oil Temperature F (C)	230			

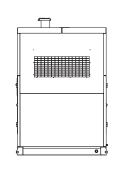
ENGINE ELECTRICAL SYSTEM:			
Starting motor voltage	24V		
Charger	70 A Alternator with DC output		
Wet Cell Battery	Lead Acid		
ALTERNATOR:			
Configuration	Brushless, 12-wire, 4-pole		
Frequency	60 Hz		
Voltage regulation	+ / - 1%, V/Hz, Electronic, EMI filtered		
No load to full load voltage regulation	+/- 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) STAND	BY RATING		
100%	146.2 (82.4)		
75%	TBA		
50%	TBA		
25%	TBA		
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 COMPLE	TE ASSEMBLY:		
Coupling	Close coupled to flywheel flange		
Enclosure	Aluminum for weather protection		
Base arrangement	Rigid steel base frame with AVMs		

DIMENSIONS & ARRANGEMENT DRAWING UL2200 MODEL: TZ-250

Spill containment







For Oil and Coolant

KEY DIMENSIONS AND WEIGHT BASIC OPEN SET, SOUND ENCLOSURE AND MOUNTED ON DOT TRAILER (\star = Option Equipment)										
Description (inches)		Height	Width		Length		Dry weight lbs	Wet Weight lbs	Sound dBA	
Open Set	H1	TBA	W1	TBA	L1	ТВА	TBA	TBA	82	
Enclosed Set *	H2	91.81	W2	64.00	L2	163.00	4097.54	TBA	68	