

## YNZ-18 Natural Gas/LP Gas Genset



\*enclosed (sound) unit

### Generator Set Ratings - Stand-by

Voltage	PH	Hz	Standby Output kW (kVA)	Prime Output kW (kVA)	Standby Max Amp Output	Prime Max Amp Output	# of Wires
120/240	1	60	18 (18)	15 (15)	76	63	4
120/240	1	60	14 (14)	12 (12)	59	50	12
120/208	3	60	18 (25)	15 (18.7)	63	52	12
120/240	3	60	18 (22.5)	15 (18.7)	54	45	12
277/480	3	60	18 (22.5)	15 (18.7)	27	23	12

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 .8 power factor. Ratings are established based on 85°F ( 29°C ) and an elevation of 1,000 feet (305 meters ).

### Standard Enclosed Generator Set Features

- Zenith Natural Gas/ Propane Model ZPP NA 416 1.6 L Engine Single Bearing Direct Coupled Alternator With Class 'H' insulation, Sized for 125°C Temperature Rise.
- Weather Protective Sound Attenuated Enclosure constructed of Steel with Powder Coat Paint Finish & Stainless Steel Hardware. 67-69 DBA Sound Level.
- Enclosure includes:
  - Critical Rated Interior Mounted Exhaust Silencer & Stainless Steel Flex Connection
  - Oil & Coolant Drain Lines w/ Ball Valves
  - Hinged / Removable / Keyed Alike Doors
- DSE 6020 Control Panel Mounted Inside Enclosure with access window to allow exterior viewing.
- Mounted on Steel Sub-Base with four (4) vibration isolators, Lifting Eyes and opening for Electrical Stub-up.
- Radiator sized for 120°F Ambient Temperature
- Dry Type Air Cleaner
- 12-Volt Starter, Engine Mounted Battery Charging Alternator, Battery Cables, and Rack along with Grounding Strap.
- Full Load Factory Test with Safety Shutdown.
- One Complete Operation and Maintenance Manual.

### Standard Open Generator Set Features

- Zenith Power Products ZPP NA 416 1.6L NG Engine Single Bearing Direct Coupled Alternator With Class 'H' insulation, Sized for 150°F Temperature Rise
- Vertical Industrial Exhaust Muffler with Rain Cap, (Loose)
- Four (4) Corner Lifting Eyes and four (4) Vibration Isolators
- Radiator sized for 120°F Ambient Temperature
- DSE 6020 Control Panel with Auto Start/Stop
- Dry Type Air cleaner
- 12-Volt Starter, Engine Mounted Battery Charging Alternator, Battery Cables, and Rack
- Full Load Factory Run Test With Safety Shutdown
- One Complete Operation and Maintenance Manual

### Optional Equipment

- Thermostatically Controlled Jacket Water Heaters
- Starting Batteries
- Critical Rated Exhaust Silencers
- Remote Annunciators.
- Automatic Transfer Switches
- Water Separator Fuel Filters

## Engine Specifications - CARB & EPA Certified

### Model: Zenith ZPPNA416

Power: 18 kW @ 1800 rpm  
Size: 1.6 Liter  
Bore and Stroke: 3.012"x3.425"(76.5x87.0mm)  
Naturally Aspirated, 4 cylinder in-line  
Direct Injected, 4 Cylinder in-Line  
Governor Type - Electronic  
Freq. Regulation: Isochronous, Steady-State Electrical system: Starter, 12-volt. Alternator 80 amp  
Recommended Battery Size: 640 CCA

### Fluids:

Oil capacity - 3.7 Liters /3.9 Qts  
Oil Filter - Dry type, Spin-on  
Coolant capacity - 2 gal

**Fuel Consumption** LP: 102 CFH/2.8 GPH (Full Load)  
NG: 158 CFH (Full Load)

## Alternator Specifications

**Alternator:** Yanan SLG184E3W

Power Factor: 0.8  
Phase: 3  
Connection: 3P 4W, Y  
Winding Pitch: connection 2/3  
Insulation Class: H/H  
Tel. Influence: TIF: <50  
Harmonic: THF: <2%  
Coefficient Voltage:  $\geq \pm 5\%$

Rate Power: 24 kW  
Voltage: 480, 208, 240 V  
Frequency: 60 Hz  
Bearing: Single Bearing  
Protection: IP21  
Class: 80.70%  
Efficiency:  $\pm 1.0\%$   
Voltage: YN440  
Regulation AVR: Self Excited

## Panel Specifications and Functions



Operational features:

- Alternator over/under voltage warning & shutdown
- Alternator over/under frequency warning & shutdown
- Engine over/under speed warning & shutdown
- Low oil pressure warning & shutdown
- High engine temperature warning & shutdown
- High/Low battery voltage warning
- Over-current warning/electrical trip/shutdown
- Built-in adjustable exercise scheduler
- Event logging of shutdown events
- External remote start input (on or off load)
- Magnetic pick-up or alternator monitoring
- 6 digital inputs—fully user configurable
- 3 configurable relay outputs

**DeepSea 6020 Digital Control with auto-logic**  
J1939 Compatible  
Can bus RS485 & 232 interface connections  
Graphic Icon Based LCD lighted Display

## Dimensional and Mounting Specifications

### Open Style Unit

LxWxH: 47.25"x30"x46" 46.85" (1190)  
Weight: 1100 lbs

### Enclosed Style Unit

LxWxH: 79"x35"x46"  
Weight: 1800 lbs

**Authorized Dealer:**

Specifications are subject to change without notice