

Need 32 kW? Then your job is heavy duty. Be sure your genset is up to the task.

When you require a 32 kW genset, chances are it's powering some critical needs. Whether it's a work site, cabin, lodge or as standby emergency power, it's going to be important the power's there on demand. It's a place for Northern Lights.

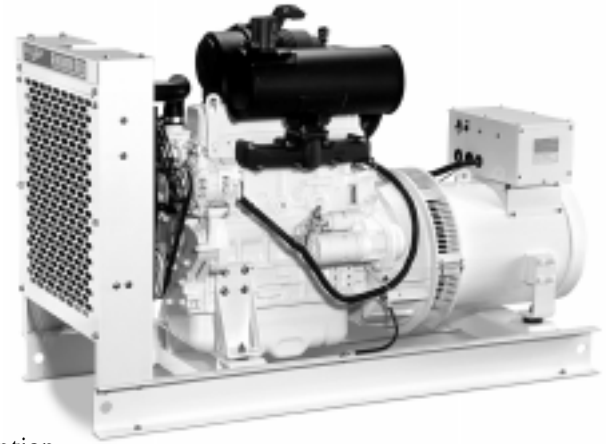
The NL498K is built around a tough four cylinder, 202 cubic inch diesel with the reserve power needed to run without worries and start electric motors easily.

Direct injected with the most modern combustion design, the NL498K meets the new emission standards without costly add-on components. This clean burn design cuts fuel use too. At full load it uses only 2.3 gallons of safe, economical diesel fuel per hour.

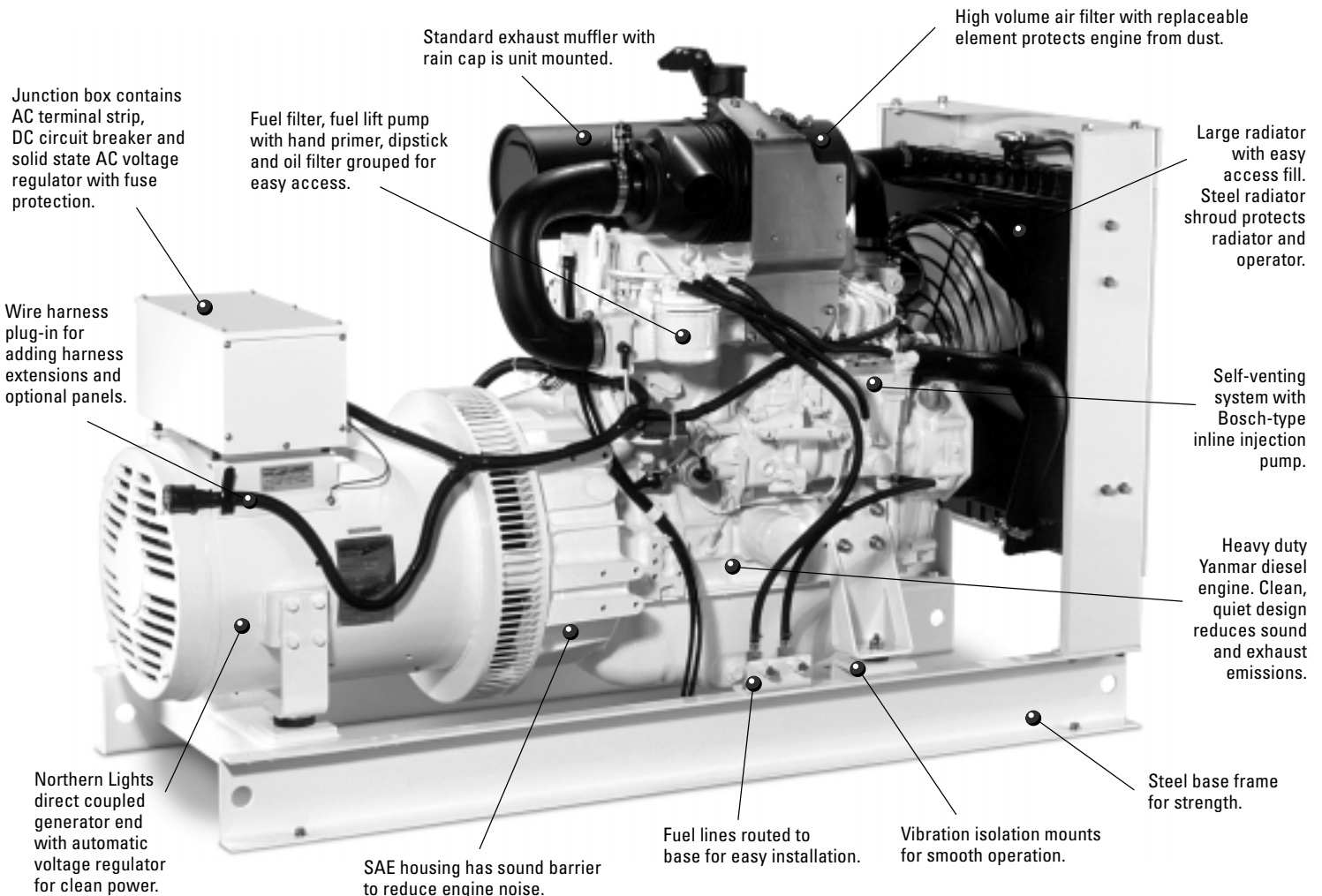
*Clean, simple design.
This view shows the
12V DC alternator, starter
and standard unit mounted muffler.*

On the other end of the set, the generator matches the engine's heavy duty features. Compare the NL498K's Class H insulation and 105°C temperature rise to many other sets' Class F insulation and 125°C temperature rise. This attention to rugged reliability makes this generator end the power of choice anywhere in the world, no matter what the conditions. It also has an automatic voltage regulator which provides $\pm 1\%$ AC voltage regulation to protect your electronics and help your electric motors last longer.

Need a custom power package? The NL498K is a great foundation for any serious power application in its



range. Just tell your Northern Lights dealer what you need. Northern Lights control panels, enclosures, trailers and a wide range of pre-engineered options are available to turn this rugged generator set into a complete power system for your prime power or critical stand-by application.



NL498K SPECIFICATIONS

AC Output¹

32kW 60 Hz, 1800 RPM, 1 Ph, 1.0 PF
120-240 Volt 133/266.67 Amps
120 Volt 266.67 Amps

25 kW 50 Hz, 1500 RPM, 1 Ph, 1.0 PF
220 Volt 113.64 Amps
110 Volt 227.27 Amps

Phase.....1 standard (3 phase optional
contact factory for information)

Voltage regulation..... ±1%

Engine

Yanmar diesel 4TNE98

Type inline 4 cyl., naturally aspirated

Displacement 202.38 cid (3.319)

Bore/Stroke 3.86/4.33 in (98/110 mm)

HP @ 1800 RPM 49

HP @ 1500 RPM 41

Approx. fuel use rate at 1800 RPM²

Full load 2.3 gph 1.9 Imp gph 8.6 lph

3/4 load 1.7 gph 1.4 Imp gph 6.4 lph

1/2 load 1.1 gph9 Imp gph 4.2 lph

Installation Data

Intake air flow/1800 95 cfm (2.69 M³/min.)

Exhaust outlet O.D 2.125 in (54 mm)

Max exhaust temp 1133°F (610°C)

Max back pressure 48 in (1200mm) H₂O

Heat rejection 1316 btu/min

Coolant capacity w/radiator 9.2 qts (8.7 l)

Engine lube oil capacity 10.7 qts (10.2 l)

Fuel inlet and return outlet..... 1/4 inch NPT

Weight

Approx. dry weight 1229 lbs (557 kg)

Notes

1. Based on 1.0 unity power factor. Deratings:
3% per 1000 ft over 500 ft. above sea level.
1.5% for every 10° over 77° F.

2. Actual fuel consumption will vary higher or
lower depending on operating conditions.

FEATURES & BENEFITS

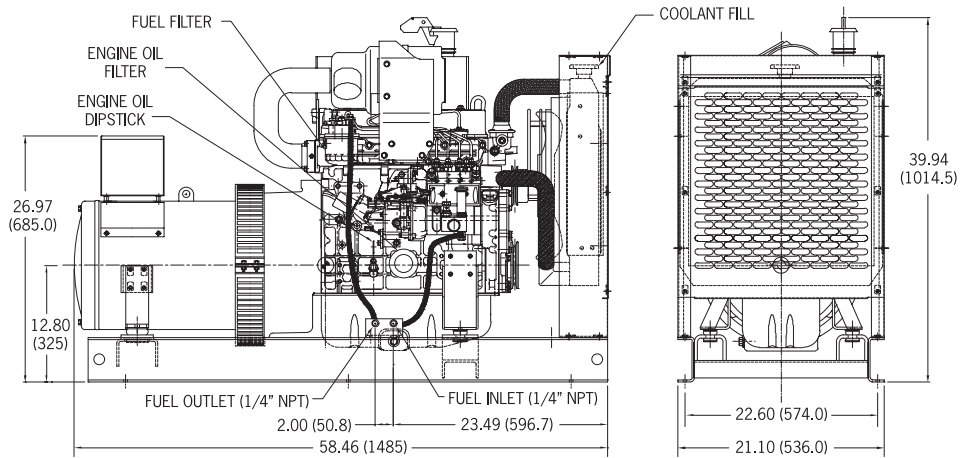
Engine Block

- Yanmar four cycle, 4 cylinder, liquid-cooled, naturally aspirated, overhead valve, industrial duty diesel engine.
- Modern combustion design improves fuel efficiency, reduces smoke and noise.
- Air intake heater for fast cold starting.
- High top piston ring placement and stabilized piston design for improved combustion and efficiency.
- Noise barrier cast into the flywheel housing for quiet operation.

Cooling System

- Liquid-cooled with radiator and pusher cooling fan. Radiator shroud and fan hand guard.

DIMENSIONAL DATA



• Contact dealer for complete installation drawings •

Self-Venting Fuel System

- Bosch-type in-line injection pump with control solenoid of fuel rack, not throttle. Eliminates speed variance.
- High pressure direct injection system for superior fuel atomization, economy and reduced exhaust emissions.
- Engine speed governed to 5% for close frequency control.
- Replaceable fuel injectors.
- Fuel lift pump with hand primer.
- Fuel filter with replaceable element.
- Fuel line manifold on base for easy connection to your fuel tank.

Intake and Exhaust

- Large air cleaner with replaceable filter element.
- Unit mount exhaust muffler. Saves you installation time and money.

Lubrication System

- Pressure lubricated by trochoid pump.
- Full flow, spin-on oil filter with bypass.

DC Electrical System

- 12 volt system includes starter motor and battery charging alternator with solid state voltage regulator and DC system circuit breaker.
- Standard control panel has engine hour meter, preheat switch, start-top switch.
- Panel harness plug-in for no-tool installation of optional control panels.
- Optional Y-harness and 10, 20 or 40 foot panel harness extensions allow you to mount an additional control panel in a convenient location.
- Safety shutdown system protects engine in event of oil pressure loss or high water temperature. Additional safety shutdown equipment optional.



AC Generator

- Northern Lights direct coupled, 4 pole, revolving field generator with Class H insulation and pre-lubricated, double sealed bearing. Brushless design is maintenance free.
- Generator has a 105° C temperature rise rating instead of 125° C. This conservative temperature rise is better for tropical applications and continuous operation.
- Generator is externally regulated with an automatic voltage regulator. This provides “clean power” (± 1% RMS no load to full load) to protect sensitive electronics and help motors last longer. This genset has excellent motor starting capability.
- High air flow from cast aluminum fan keeps generator running cool.
- Terminal strip in generator junction box for easy connection to AC distribution system and voltage changes.

Special Equipment

- Steel base frame gives rigid support and makes installation easy.
- Vibration mounts isolate engine vibration for smooth, quiet operation.
- Long life, white enamel finish for excellent service visibility.
- Operator's and parts manuals.
- Each set is test run with a load. One step in our rigorous quality control program.
- Shipping box standard.

DEALER: