

Prime AC Output¹

22 kW	60 Hz, 1800 RPM, 1 Ph, 1.0 PF, 120-240 V/92A, 120 V/183A
Optional	Three Phase with 0.8 PF
Voltage regulation	±1%

Lugger L844 Engine

Type	Vertical inline 4 cylinder diesel
Displacement	135 in ³ (2.2 ltr)
Bore/Stroke	3.30/3.9 in (84/100 mm)

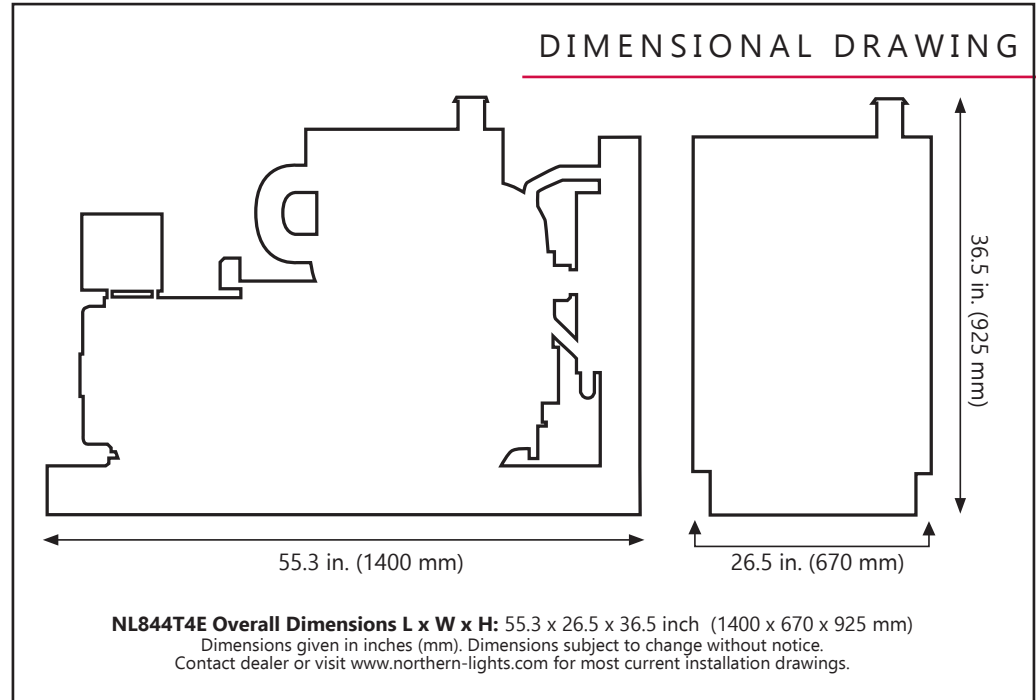
Approx. fuel use

1800 RPM @ full load ²	1.7 gph (6.5 lph)
1800 RPM @ half load ²	0.8 gph (3.0 lph)

Installation Data & Weight

Exhaust outlet	2 inch (50 mm)
Fuel inlet and return	1/4 inch NPT
Approximate dry weight	1275 lbs (580 kg)

- Based on 1.0 unity power factor.
- Actual fuel consumption will vary depending on operating conditions.



NL844T4E FEATURES AND BENEFITS

ENGINE BLOCK

- Four cycle, 4 cylinder, liquid cooled, turbocharged, overhead valve, industrial-duty diesel.
- Direct fuel injection improves fuel efficiency, reduces smoke and noise.
- Glow plugs for fast cold weather starting.

COOLING SYSTEM

- Liquid-cooled with radiator and pusher cooling fan. Steel radiator shroud and fan and belt guards protect the radiator and operator.

SELF-VENTING FUEL SYSTEM

- High pressure common rail fuel system for safe, economical function.
- Isochronous engine speed control to 5% or close AC frequency control.
- Large spin-on fuel filter.
- Fuel line manifold and flexible fuel lines for easy fuel tank connection.

LUBRICATION SYSTEM

- Full flow, spin-on oil filter with bypass.
- 8.6 qt. (8.2ltr) oil capacity.

INTAKE AND EXHAUST

- Large replaceable air filter protects engine in dusty environments.
- Integral diesel oxidation catalyst reduces exhaust noise level.
- Meets US EPA Tier IV emission requirements for cleaner exhaust.

DC ELECTRICAL SYSTEM

- 12 volt system includes starter motor, battery charging alternator with solid state voltage regulator and DC circuit breaker.

DC ELECTRICAL SYSTEM CONT'D

- Standard S-TSC control panel provides engine parameters and AC voltage monitoring. Optional current sensing available
- Remote start contact connections included for autostart operation with external control systems.
- RS485 and J1939 data connector and optional cables for connection to remote panels or monitoring systems.
- Safety alarms and shutdowns for low oil pressure, high coolant temperature and other ECU functions.

AC GENERATOR

- Northern Lights, direct coupled, brushless AC generator end is maintenance free.
- 4 lead, 1 phase, 1.0 pf, 50 or 60 Hz output. 12 lead-3 phase is optional.
- Low, 95°C/50°C ambient heat rise rating for long generator life. Compare to 130° C ratings on light-duty stand-by sets.
- Automatic Voltage Regulator is powered by dedicated AC winding for true 300% short circuit capability. Quick ±1% RMS no load to full load voltage regulation. AVR has circuit breaker protection.
- Generator features high quality, Class "H" epoxy insulation, accessible diodes, over-sized bearings and junction box for wiring.
- High air flow from integral fan keeps generator running cool.

SPECIAL EQUIPMENT

- Welded steel skid frame gives rigid support and makes installation easy.
- Flexible mounts isolate engine vibration for smooth operation.
- Long life, blue enamel paint finish.
- Operator's and parts manuals.
- Rigorous quality control includes a test run with load.
- Shipping crate protects set.

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