THERMO KING

Specification Sheet



MODEL NMG-118 T4

18 kVA DIESEL POWERED
NOSE MOUNTED GENERATOR SET

MANUFACTURED BY

KLINGE CORPORATION

4075 EAST MARKET STREET

YORK, PA 17402 USA

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THERMO KING

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GENERAL INFORMATION

Type of System	The generator set is designed to provide electrical power to refrigerated containers.
Construction	The engine and the direct driven generator are installed on a single frame, through vibration isolators. The base is made from 6061-T6 aluminum in order to provide a high degree of corrosion protection. The unit is delivered complete, with all necessary equipment for operation, including a 170 liter (45 US gallons) fuel tank. Providing approximately two days of average operation.
Weight	500 Kg (1100 lbs) without fuel. 685 Kg (1510 lbs) fully fueled.
Overall Dimensions	2121mm L x 996mm H x 626mm D (83.5 x 39.2in x 24.7)
Fuel	The engine can operate on diesel fuel SAE No. 2-D, No. 1-D in cold temperatures, or any other equivalent low sulphur content diesel fuel. NOTE: The unit can operate also on the following kerosene-based fuels: JET-A; JP-5; JP-8; NATO Code F-34
Control Circuits	12 Volts DC
Hardware	The hardware used for assembling the unit, including door hinges and latches, is made of stainless steel.
Paint Color	White

DESIGN STANDARD INFORMATION

- The fuel tank, panels, doors, brackets and electrical box, etc. are made of aluminum and protected by powder coating.
- The unit is designed for operation in temperatures –40°C to 52°C (-40°F to 125°F)

ENGINE SPECIFICATIONS

Engine	Isuzu, Tier 4/Stage 3B
Type	4 cylinder, 2.2L, 4 stroke, water cooled
Combustion system	Direct injection diesel
Bore x Stroke	85 x 96 mm (3.35 x 3.78)
Displacement	2179 cm≥ (132.97 in≥)

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Aspiration	Turbocharged
Injection	Direct
Rated Output	30 kW (40.2 BHP) @ 1800 rpm rated output
Electronics	12V system, glow plug starting aid
Lubrication	Trochoid pump; 8.1 liter (8.6 US quarts) oil pan capacity
Cooling system	Pressurized liquid (50/50 water/glycol), radiator force-feed circulation, five blade pusher fan

FILTERS

Oil filter	Full flow, spin-on, paper element type
Pre-Fuel filter	Spin-on cartridge type, w/water sedimenter, paper element type, w/see-thru separating bowl w/drain valve, remote mount
Main Fuel filter	Spin-on cartridge type, w/water sedimenter, paper element type with priming pump, w/drain, remote mount
Air Filter	Dry cartridge type, w/built-in tangential pre-cleaner and automatic dust and water expelling Vacuator™ valve

FUEL SYSTEM

Pre-pump	Electrical, 12V fuel supply pump, remote mounted
Fuel pump	Engine integrated fuel pump

MAIN POWER ALTERNATOR

Type	Three phases, synchronous, 4 poles, brushless, single bearing
Drive	Direct on flywheel
Protection	IP23
Insulation	Class H
Voltage	380/400/415 50Hz 1500rpm 380/400/415 60Hz 1800rpm

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Apparent Power	30kVA 50 Hz 35.5kVA 60 Hz
Rated Power	24 kW 50 Hz 28.4kW 60 Hz

BATTERY

Type	Lead / acid; 12 V / 950 CCA @ -17.7°C (0^0F) with top studs
Reserve Capacity	100 minutes @ 25 Amp

POWER RECEPTACLE

Type	CEE-17, ISO 1496/2 4 Pole, 480 V, 32 Amps

ELECTRICAL CONTROL COMPONENTS

- Two toggle switches
    - Controlling OFF-ON-START of the generator set
    - Regulating engine speed (1000 RPM – 1800RPM)
- Red LED – preheat status
- Power View Display showing genset data:
    - Engine Oil Pressure
    - Engine Coolant Temperature
    - Machine Hours
    - Battery Voltage

POWER DISTRIBUTION BOX

- AC Volt-meter for power output control with green band between 420 and 500 V
- Main power circuit breaker, 40A

ELECTRIC SAFETY DEVICES

- The generator set incorporates an Electronic Control Module to monitor and control engine function including fuel injection, turbo operation, oil pressure and coolant temperature.

MISCELLANEOUS **(included in the delivery)**

- If not otherwise required, the genset is delivered fully operational with all the fluids except fuel
- Operating Instructions are supplied as a label on the face of the engine

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compartment door
- Wiring Schematic and Maintenance Parts are labeled on the back of the engine compartment door
- Operation, Maintenance and Spare Parts Manual in English

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REVISION RECORD

Rev	Description	Date	Approved

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