For over 60 years, Generac has provided innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial applications under adverse conditions.

Generac is committed to ensuring our customers’ service support continues after their generator purchase.
ENGINE SYSTEM
- Oil Drain Extension
- Air Cleaner
- Level 1 Fan and Belt Guards (Open Set Only)
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Radiator Duct Adapter (Open Set Only)
- Engine Coolant Heater

FUEL SYSTEM
- NPT Flexible Fuel Lines (When Tank is Selected)
- Primary Fuel Filter

COOLING SYSTEM
- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- Radiator Drain Extension
- 50/50 Ethylene Glycol Antifreeze

ELECTRICAL SYSTEM
- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Boot Engine Electrical Connections
- Solenoid Activated Starter Motor

ALTERNATOR SYSTEM
- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Permanent Magnet Excitation
- Sealed Bearing
- Full Load Capacity Alternator
- Motorized Main Line Circuit Breaker

GENERATOR SET
- Separation of Circuits - High/Low Voltage
- Separation of Circuits - Multiple Breakers
- Standard Factory Testing
- 2 Year Limited Warranty (Standby Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)

ENCLOSURE (If Selected)
- Structural Steel Sub-Base
- Sub-Base Lifting Eyes
- Enamel Finish
- Zinc Plated Fasteners
- Zinc Plated Cast Aluminum Keylock Door Handles
- Heavy Duty Stainless Steel Hinges with Removable Brass Pins
- Modular Construction
- Rhino Coat™ - Textured Polyester Powder Coat Paint

FUEL TANKS (If Selected)
- UL 142/ULC S601
- Double Wall
- Vents
- Factory Pressure Tested (2 psi)
- Rupture Basin Alarm
- Stainless Steel Hardware
- Fuel Line Hose
- Fuel Line Hose and Separator
- Electric Fuel Level
- Secondary Fuel Filter

CONTROL SYSTEM

InteliGen NT® Display

Program Functions
- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- RS-232/485 Communications
- All Phase Sensing Digital Voltage Regulator
- 2-Wire Start Capability

- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus® Protocol
- Predictive Maintenance Algorithm
- Password Parameter Adjustment Protection
- Single Point Ground
- Event based history with 500 events
- 0.2 msec High Speed Remote Trending
- Alarm Information Automatically Annunciated on the Display

Full System Status Display
- Power Output (kW)
- Power Factor
- kW Hours, Total, and Last Run

- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency

Alarms and Warnings
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Overspeed
- Battery Voltage
- Alarms and Warnings Time and Date Stamped
- Snap Shots of Key Operation Parameters During Alarms and Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)
**ENGINE SYSTEM**
- 50° Ambient Cooling System
- Critical Grade Silencer
- Hospital Grade Silencer
- Radiator Stone Guard (Open Set Only)
- Air Cleaner with Crank Case Ventilation
- Air Cleaner with Indicator

**ELECTRICAL SYSTEM**
- 10A UL Listed Battery Charger
- 20A UL Listed Battery Charger
- Battery Warmer

**ALTERNATOR SYSTEM**
- Alternator Upsizing
- Anti-Condensation Heater

**GENERATOR SET**
- AC Electrical Lighting Package (ELP)
- Spring Isolators (Standard/Seismic)
- Extended Factory Testing

**ENCLOSURE**
- Weather Protected Enclosure
- Level 1 Sound Attenuated
- Level 2 Sound Attenuated
- Steel Enclosure
- Aluminum Enclosure
- Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- Louvers with Gravity Dampers

**WARRANTY (Standby Gensets Only)**
- 2 Year Extended Limited Warranty
- 5 Year Limited Warranty
- 5 Year Extended Limited Warranty
- 7 Year Extended Limited Warranty
- 10 Year Extended Limited Warranty

**ENGINEERED OPTIONS**

**ENGINE SYSTEM**
- Coolant Heater Ball Valves
- Fluid Containment Pan
- Oil Heater

**ALTERNATOR SYSTEM**
- 2nd Breaker System
- Unit Mounted Load Banks
- Medium Voltage Alternators
- Digital Voltage Regulator

**CONTROL SYSTEM**
- NFPA110 Level I and II (Programmable) 15-LED Remote Annunciator
- Remote Relay Assembly (8 or 16)
- Remote E-Stop - Surface Mount
- Local E-Stop Panel
- Remote Communication - InternetBridge NT
- 10A Engine Run Relay
- Low Coolant Level Indication
- 90% Alarm High Fuel Program

**FUEL TANKS (Size on Last Page)**
- Mechanical Fuel Level
- 12 Hour Run Time
- 24 Hour Run Time

**CONTROL SYSTEM**
- Spare Inputs (x4) / Outputs (x4)
- Battery Disconnect Switch

**GENERATOR SET**
- Special Testing
- 12 VDC Enclosure Lighting Kit
- 24 VDC/120 VAC Enclosure Lighting Kit

**ENCLOSURE**
- Motorized Dampers
- Enclosure Heaters (with Motorized Dampers Only)
- Door Open Alarm Switch

**FUEL TANKS**
- Overfill Protection Valve
- UL2085 Tank
- ULC S601 Tank
- Special Fuel Tanks
- Vent Extensions
- Transfer Pumps and Controllers
- Fuel Tank Heaters
**ENGINE SPECIFICATIONS**

<table>
<thead>
<tr>
<th>General</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Make</strong></td>
<td>Mitsubishi</td>
</tr>
<tr>
<td><strong>EPA Emissions Compliance</strong></td>
<td>Tier 2</td>
</tr>
<tr>
<td><strong>EPA Emissions Reference</strong></td>
<td>See Emission Data Sheet</td>
</tr>
<tr>
<td><strong>Cylinder #</strong></td>
<td>16</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>4 Cycle</td>
</tr>
<tr>
<td><strong>Displacement - in³ (L)</strong></td>
<td>3,989 (65.4)</td>
</tr>
<tr>
<td><strong>Bore - in (mm)</strong></td>
<td>6.69 (170)</td>
</tr>
<tr>
<td><strong>Stroke - in (mm)</strong></td>
<td>7.09 (180)</td>
</tr>
<tr>
<td><strong>Compression Ratio</strong></td>
<td>14.5:1</td>
</tr>
<tr>
<td><strong>Intake Air Method</strong></td>
<td>Turbocharged/Intercooled</td>
</tr>
<tr>
<td><strong>Cylinder Head</strong></td>
<td>4-Valve</td>
</tr>
<tr>
<td><strong>Piston Type</strong></td>
<td>Aluminum</td>
</tr>
<tr>
<td><strong>Crankshaft Type</strong></td>
<td>Dropped Forged Steel</td>
</tr>
</tbody>
</table>

**Engine Governing**

- **Governor** Proact2 Isochronous
- **Frequency Regulation (Steady State)** ±0.25%

**Lubrication System**

- **Oil Pump Type** Gear Driven
- **Oil Filter Type** Cartridge
- **Crankcase Capacity - qt (L)** 200 (212)

**Cooling System**

- **Cooling System Type** Unit Mounted Radiator
- **Water Pump Type** Centrifugal
- **Fan Type** Pusher
- **Fan Speed - RPM** 710
- **Fan Diameter - in (mm)** 81 (2,057)

**Fuel System**

- **Fuel Type** Ultra Low Sulfur Diesel #2
- **Fuel Specifications** ASTM
- **Fuel Filtering (microns)** 10 (Final Filters)
- **Fuel Inject Pump Make** Mechanical
- **Fuel Pump Type** Engine Driven Gear
- **Injector Type** Mitsubishi PS8 Type x 2
- **Engine Type** S16R-Y2PTAW-1
- **Fuel Supply Line - in (mm)** 3/4" NPT (19.0)
- **Fuel Return Line - in (mm)** 3/4" NPT (19.0)

**Engine Electrical System**

- **System Voltage** 24 VDC
- **Battery Charger Alternator** Standard
- **Battery Size** See Battery Index 0161970SBY
- **Battery Voltage** (2) - 12 VDC
- **Ground Polarity** Negative

---

**ALTERNATOR SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Standard Model</th>
<th>K1440124Y22</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Poles</strong></td>
<td>4</td>
</tr>
<tr>
<td><strong>Field Type</strong></td>
<td>Rotating</td>
</tr>
<tr>
<td><strong>Insulation Class - Rotor</strong></td>
<td>H</td>
</tr>
<tr>
<td><strong>Insulation Class - Stator</strong></td>
<td>H</td>
</tr>
<tr>
<td><strong>Total Harmonic Distortion</strong></td>
<td>&lt;5%</td>
</tr>
<tr>
<td><strong>Telephone Interference Factor (TIF)</strong></td>
<td>&lt; 50</td>
</tr>
</tbody>
</table>

**Standard Excitation** Permanent Magnet

- **Bearings** Single Sealed Cartridge
- **Coupling** Direct via Flexible Disc
- **Load Capacity- Standby** 100%
- **Prototype Short Circuit Test** Yes
- **Voltage Regulator Type** Analog
- **Regulation Accuracy (Steady State)** ±0.5%
MD1500 | 65.4L | 1,500 kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency

OPERATING DATA

POWER RATINGS

<table>
<thead>
<tr>
<th>Power Type</th>
<th>Voltage</th>
<th>Power</th>
<th>Amps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standby - Three-Phase 277/480 VAC @0.8pf</td>
<td>1,500 kW</td>
<td>1,500 kW</td>
<td></td>
</tr>
<tr>
<td>Standby - Three-Phase 346/600 VAC @0.8pf</td>
<td>1,500 kW</td>
<td>1,500 kW</td>
<td></td>
</tr>
</tbody>
</table>

MOTOR STARTING CAPABILITIES (skVA)

<table>
<thead>
<tr>
<th>Voltage</th>
<th>skVA vs. Voltage Dip</th>
<th>K1440124Y22</th>
<th>Contact Factory</th>
<th>k1788064N22</th>
<th>Contact Factory</th>
</tr>
</thead>
<tbody>
<tr>
<td>277/480 VAC</td>
<td>30%</td>
<td>Diesel - gph (Lph)</td>
<td>25%</td>
<td>36.5 (138)</td>
<td>50%</td>
</tr>
</tbody>
</table>

FUEL CONSUMPTION RATES*

<table>
<thead>
<tr>
<th>Fuel Pump Lift - ft (m)</th>
<th>Total Fuel Pump Flow (Combustion + Return) - gph (Lph)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 (1)</td>
<td>148 (479)</td>
</tr>
</tbody>
</table>

COOLING

<table>
<thead>
<tr>
<th>Cooling Rating - Jacket Water</th>
<th>Standby</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coolant Flow</td>
<td>gpm (Lpm)</td>
</tr>
<tr>
<td>Coolant System Capacity</td>
<td>gal (L)</td>
</tr>
<tr>
<td>Heat Rejection to Coolant</td>
<td>BTU/hr (kW)</td>
</tr>
<tr>
<td>Inlet Air - 40°C Cooling Package</td>
<td>cfm (m³/min)</td>
</tr>
<tr>
<td>Inlet Air - 50°C Cooling Package</td>
<td>cfm (m³/min)</td>
</tr>
<tr>
<td>Maximum Additional Radiator Backpressure</td>
<td>in H₂O (kPa)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cooling Rating - Aftercooler</th>
<th>Standby</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coolant Flow</td>
<td>gpm (Lpm)</td>
</tr>
<tr>
<td>Coolant System Capacity</td>
<td>gal (L)</td>
</tr>
<tr>
<td>Heat Rejection to Coolant</td>
<td>BTU/hr (kW)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cooling Rating - Fuel Pump</th>
<th>Standby</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heat Rejected to Fuel</td>
<td>BTU/hr (kW)</td>
</tr>
</tbody>
</table>

COMBUSTION AIR REQUIREMENTS

<table>
<thead>
<tr>
<th>Combustion Air Requirements</th>
<th>Standby</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow at Rated Power - cfm (m³/min)</td>
<td>5,932 (168)</td>
</tr>
</tbody>
</table>

ENGINE

<table>
<thead>
<tr>
<th>Engine Specifications</th>
<th>Standby</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Engine Speed</td>
<td>RPM</td>
</tr>
<tr>
<td>Horsepower at Rated kW**</td>
<td>hp</td>
</tr>
<tr>
<td>Piston Speed</td>
<td>ft/min (m/min)</td>
</tr>
<tr>
<td>BMEP</td>
<td>psi (kPa)</td>
</tr>
</tbody>
</table>

EXHAUST

<table>
<thead>
<tr>
<th>Exhaust Specifications</th>
<th>Standby</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exhaust Flow (Rated Output)</td>
<td>cfm (m³/min)</td>
</tr>
<tr>
<td>Maximum Allowable Backpressure (Post Turbo)</td>
<td>inHg (kPa)</td>
</tr>
<tr>
<td>Exhaust Temperature (Rated Output - Post Silencer)</td>
<td>°F (°C)</td>
</tr>
</tbody>
</table>

** Refer to “Emissions Data Sheet” for maximum bhp for EPA and SCAQMD permitting purposes.

Termination – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.
Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards.
Standby - See Bulletin 0187500SSB
Prime - See Bulletin 0187510SSB
<table>
<thead>
<tr>
<th>OPEN SET</th>
<th>Run Time - Hours</th>
<th>Usable Capacity - Gal (L)</th>
<th>L x W x H - in (mm)</th>
<th>Weight - lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Tank</td>
<td>-</td>
<td></td>
<td>230.1 (5,844) x 106.8 (2,712) x 116.4 (2,955)</td>
<td>35,076 (15,912)</td>
</tr>
<tr>
<td>12</td>
<td>1,525 (5,774)</td>
<td>264.0 (6,706) x 124.3 (3,158) x 140.3 (3,564)</td>
<td>41,778 (18,951)</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>3,050 (11,547)</td>
<td>264.0 (6,706) x 124.3 (3,158) x 155.3 (3,945)</td>
<td>44,178 (20,039)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WEATHER PROTECTED ENCLOSURE</th>
<th>Run Time - Hours</th>
<th>Usable Capacity - Gal (L)</th>
<th>L x W x H - in (mm)</th>
<th>Steel Weight - lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Tank</td>
<td>-</td>
<td></td>
<td>264.0 (6,706) x 120.0 (3,048) x 188.7 (4,793)</td>
<td>43,641 (19,795)</td>
</tr>
<tr>
<td>12</td>
<td>1,525 (5,774)</td>
<td>270 (6,834) x 122 (3,234) x 183.8 (4,923)</td>
<td>46,661 (21,165)</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>3,050 (11,547)</td>
<td>270 (6,834) x 122 (3,234) x 193.8 (4,923)</td>
<td>49,061 (22,254)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LEVEL 1 SOUND ATTENUATED ENCLOSURE</th>
<th>Run Time - Hours</th>
<th>Usable Capacity - Gal (L)</th>
<th>L x W x H - in (mm)</th>
<th>Steel Weight - lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Tank</td>
<td>-</td>
<td></td>
<td>351.0 (8,915) x 120.0 (3,048) x 188.7 (4,793)</td>
<td>49,061 (22,254)</td>
</tr>
<tr>
<td>12</td>
<td>1,525 (5,774)</td>
<td>351.0 (8,915) x 129.4 (3,288) x 183.8 (4,923)</td>
<td>48,743 (22,110)</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>3,050 (11,547)</td>
<td>351.0 (8,915) x 129.4 (3,288) x 193.8 (4,923)</td>
<td>50,443 (22,881)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LEVEL 2 SOUND ATTENUATED ENCLOSURE</th>
<th>Run Time - Hours</th>
<th>Usable Capacity - Gal (L)</th>
<th>L x W x H - in (mm)</th>
<th>Steel Weight - lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Tank</td>
<td>-</td>
<td></td>
<td>425.3 (10,802) x 268.5 (6,819) x 191.6 (4,867)</td>
<td>46,150 (20,933)</td>
</tr>
<tr>
<td>12</td>
<td>1,525 (5,774)</td>
<td>425.3 (10,802) x 268.5 (6,819) x 183.8 (4,867)</td>
<td>49,850 (22,612)</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>3,050 (11,547)</td>
<td>425.3 (10,802) x 268.5 (6,819) x 193.8 (4,921)</td>
<td>51,550 (23,383)</td>
<td></td>
</tr>
</tbody>
</table>

*All measurements are approximate and for estimation purposes only.

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

Specification characteristics may change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.