Standby Power Rating
350 kW, 438 kVA, 60 Hz

Prime Power Rating*
315 kW, 394 kVA, 60 Hz

Powering Ahead
For over 50 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.

Codes and Standards
Not all codes and standards apply to all configurations. Contact factory for details.

UL2200, UL6200, UL1236, UL489, UL142
CSA C22.2
BS5514 and DIN 6271
SAE J1349
NFPA 37, 70, 99, 110
NEC700, 701, 702, 708
ISO 3046, 7637, 8528, 9001
NEMA ICS10, MG1, 250, ICS6, AB1
ANSI C62.41
ENGINE SYSTEM
- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Critical Silencer (Enclosed Units Only)
- Factory Filled Oil and Coolant
- Radiator Duct Adapter (Open Set Only)

Fuel System
- Secondary Fuel Filter
- Fuel Lockoff Solenoid

Cooling System
- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- 50/50 Ethylene Glycol Antifreeze
- Radiator Drain Extension
- 240 VAC Coolant Heater

Electrical System
- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

ALTERNATOR SYSTEM
- UL2200 GENprotect™
- Class H Insulation Material
- Vented Rotor
- 2/3 Pitch
- Skewed Stator
- Amortisseur Winding
- Permanent Magnet Excitation
- Sealed Bearing
- Full Load Capacity Alternator
- Protective Thermal Switch

GENERATOR SET
- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Separation of Circuits - Multiple Breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby Rated Units)
- Silencer Mounted in the Discharge Hood (Enclosed Units Only)

ENCLOSURE (If Selected)
- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuated Enclosures)
- Gasketed Doors
- Stamped Air-Intake Louvers
- Upward Facing Discharge Hoods (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- RhinoCoat™ - Textured Polyester Powder Coat Paint

TANK (If Selected)
- UL 142/ULC S-601
- Double Wall
- Vents
- Sloped Top
- Sloped Bottom
- Factory Pressure Tested (2 psi)
- Rupture Basin Alarm
- Fuel Level
- Check Valve in Supply and Return Lines
- RhinoCoat™ - Textured Polyester Powder Coat Paint
- Stainless Steel Hardware

STANDARD FEATURES

CONTROL SYSTEM

Digital H Control Panel- Dual 4x20 Display

Program Functions
- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable Logic Controller
- RS-232/485 Communications
- All Phase Sensing Digital Voltage Regulator
- 2-Wire Start Capability
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/Sealed Connectors
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)

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)
**CONFIGURABLE OPTIONS**

**ENGINE SYSTEM**
- Engine Coolant Heater
- Level 1 Fan and Belt Guards (Enclosed Units Only)
- Radiator Stone Guard
- Shipped Loose Critical Silencer Flange
- Oil Make-Up System
- Heavy Duty Air Cleaner
- Oil Heater
- Air Filter Restriction Indicator

**GENERATOR SET**
- 12 Position Load Center
- Extended Factory Testing

**ENCLOSURE**
- Weather Protected Enclosure
- Level 1 Sound Attenuated
- Level 2 Sound Attenuated
- Level 2 Sound Attenuated with Motorized Dampers
- Steel Enclosure
- Aluminum Enclosure
- IBC Seismic Certification
- Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- AC/DC Enclosure Lighting Kit

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

**CIRCUIT BREAKER OPTIONS**
- Main Line Circuit Breaker
- 2nd Main Line Circuit Breaker
- Shunt Trip and Auxiliary Contact
- Electronic Trip Breakers

**CONTROL SYSTEM**
- NFPA 110 Compliant 21-Light Remote Annunciator
- Remote Relay Assembly (8 or 16)
- Ground Fault Annunciator
- 10A Engine Run Relay
- Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- Remote Communication - Modem
- 100 dB Alarm Horn
- 120V GFCI and 240V Outlets

**WARRANTY**
- 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**
- Fluid Containment Pan
- Coolant Heater Ball Valves

**GENERATOR SET**
- Special Testing
- Battery Box

**ENCLOSURE**
- Door Open Alarm Switch

**TANKS**
- Overfill Protection Valve
- UL 2085 Tank
- ULC S-601 Tank
- Stainless Steel Tank
- Special Fuel Tanks
- Vent Extensions
- 5 Gallon Spill Containment Box
- Dealer Supplied AHJ Requirements
### ENGINE SPECIFICATIONS

**General**

- Make: Iveco/FPT
- EPA Emissions Compliance: Stationary Emergency
- EPA Emissions Reference: See Emissions Data Sheet
- Cylinder #: 6
- Type: In-Line
- Displacement - in³ (L): 787.2 (12.9)
- Bore - in (mm): 5.3 (134.6)
- Stroke - in (mm): 5.9 (149.9)
- Compression Ratio: 16.5:1
- Intake Air Method: Turbocharged/Aftercooled
- Cylinder Head Type: 4-Valve
- Piston Type: Aluminum
- Crankshaft Type: Dropped Forged Steel

**Engine Governing**

- Governor: Electronic Isochronous
- Frequency Regulation (Steady State): ±0.25%

**Lubrication System**

- Oil Pump Type: Gear
- Oil Filter Type: Full Flow
- Crankcase Capacity - qt (L): 36.9 (35)

**Cooling System**

- Cooling System Type: Closed Recovery
- Water Pump Type: Belt Driven Centrifugal
- Fan Type: Pusher
- Fan Speed - RPM: 2,466
- Fan Diameter - in (mm): 30 (762)

**Fuel System**

- Fuel Type: Ultra Low Sulfur Diesel #2
- Carburetor: ASTM
- Fuel Filtering (Microns): 5
- Fuel Pump Type: Engine Driven Gear
- Injector Type: Electronic
- Engine Type: Pre-Combustion
- Fuel Supply Line - in (mm): 0.5 (12.7) NPT
- Fuel Return Line - in (mm): 0.5 (12.7) NPT

**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

**Standard Model**: K0400124Y21

- Poles: 4
- Field Type: Revolving
- Insulation Class - Rotor: H
- Insulation Class - Stator: H
- Total Harmonic Distortion: <5% (3-Phase Only)
- Telephone Interference Factor (TIF): <50

**Standard Excitation**: Permanent Magnet

- Bearings: Single - Pre-Lubed and Sealed
- Coupling: Direct via Flexible Disc
- Load Capacity: 100%
- Prototype Short Circuit Test: Yes
- Voltage Regulator Type: Full Digital
- Number of Sensed Phases: All
- Regulation Accuracy (Steady State): ±0.25%
**POWER RATINGS**

<table>
<thead>
<tr>
<th>Standby</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Three-Phase 120/208 VAC @0.8pf</td>
<td>350 kW</td>
</tr>
<tr>
<td>Three-Phase 120/240 VAC @0.8pf</td>
<td>350 kW</td>
</tr>
<tr>
<td>Three-Phase 277/480 VAC @0.8pf</td>
<td>350 kW</td>
</tr>
<tr>
<td>Three-Phase 346/600 VAC @0.8pf</td>
<td>350 kW</td>
</tr>
</tbody>
</table>

**MOTOR STARTING CAPABILITIES (skVA)**

<table>
<thead>
<tr>
<th>skVA vs. Voltage Dip</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>277/480 VAC</td>
<td>30%</td>
</tr>
<tr>
<td>K0400124Y21</td>
<td>953</td>
</tr>
<tr>
<td>K0400124Y23</td>
<td>1,060</td>
</tr>
<tr>
<td>K0500124Y23</td>
<td>1,020</td>
</tr>
</tbody>
</table>

**FUEL CONSUMPTION RATES***

<table>
<thead>
<tr>
<th>Fuel Pump Lift</th>
<th>Total Fuel Pump Flow (Combustion + Return)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ft (m)</td>
<td>gph (Lph)</td>
</tr>
<tr>
<td>3 (1)</td>
<td>31 (117)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Diesel - gph (Lph)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent Load</td>
<td>Standby</td>
</tr>
<tr>
<td>25%</td>
<td>8.4 (31.8)</td>
</tr>
<tr>
<td>50%</td>
<td>14.5 (54.9)</td>
</tr>
<tr>
<td>75%</td>
<td>20.1 (76.1)</td>
</tr>
<tr>
<td>100%</td>
<td>25.3 (95.8)</td>
</tr>
</tbody>
</table>

**COOLING**

<table>
<thead>
<tr>
<th>Standby</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Coolant Flow</td>
<td>gpm (Lpm)</td>
</tr>
<tr>
<td>145 (552)</td>
<td></td>
</tr>
<tr>
<td>Heat Rejection to Coolant</td>
<td>BTU/hr (kW)</td>
</tr>
<tr>
<td>932,760 (273)</td>
<td></td>
</tr>
<tr>
<td>Inlet Air</td>
<td>scfm (m³/min)</td>
</tr>
<tr>
<td>19,070 (539.7)</td>
<td></td>
</tr>
<tr>
<td>Maximum Operating Radiator Air Temperature</td>
<td>°F (°C)</td>
</tr>
<tr>
<td>122 (50)</td>
<td></td>
</tr>
<tr>
<td>Maximum Ambient Temperature (Before Derate)</td>
<td>See Bulletin No. 0199280SSD</td>
</tr>
<tr>
<td>Coolant System Capacity</td>
<td>gal (L)</td>
</tr>
<tr>
<td>13 (49.2)</td>
<td></td>
</tr>
<tr>
<td>Maximum Radiator Backpressure</td>
<td>in H₂O (kPa)</td>
</tr>
<tr>
<td>0.5 (0.12)</td>
<td></td>
</tr>
</tbody>
</table>

**COMBUSTION AIR REQUIREMENTS**

<table>
<thead>
<tr>
<th>Standby</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow at Rated Power</td>
<td>scfm (m³/min)</td>
</tr>
<tr>
<td>1,195 (33.8)</td>
<td></td>
</tr>
</tbody>
</table>

**ENGINE**

<table>
<thead>
<tr>
<th>Standby</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Engine Speed</td>
<td>RPM</td>
</tr>
<tr>
<td>1,800</td>
<td></td>
</tr>
<tr>
<td>Horsepower at Rated kW**</td>
<td>hp</td>
</tr>
<tr>
<td>530</td>
<td></td>
</tr>
<tr>
<td>Piston Speed</td>
<td>ft/min (m/min)</td>
</tr>
<tr>
<td>1,770 (540)</td>
<td></td>
</tr>
<tr>
<td>BMEP</td>
<td>psi (kPa)</td>
</tr>
<tr>
<td>313 (2,158)</td>
<td></td>
</tr>
</tbody>
</table>

**EXHAUST**

<table>
<thead>
<tr>
<th>Standby</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Exhaust Flow (Rated Output)</td>
<td>scfm (m³/min)</td>
</tr>
<tr>
<td>2,988 (84.6)</td>
<td></td>
</tr>
<tr>
<td>Maximum Exhaust Backpressure</td>
<td>inHg (kPa)</td>
</tr>
<tr>
<td>1.5 (5.1)</td>
<td></td>
</tr>
<tr>
<td>Exhaust Temp (Rated Output - Post Silencer)</td>
<td>°F (°C)</td>
</tr>
<tr>
<td>1,076 (580)</td>
<td></td>
</tr>
</tbody>
</table>

**Deration – 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 10000018933
Prime - See Bulletin 10000018926

* Fuel supply installation must accommodate fuel consumption rates at 100% load.

** Refer to “Emissions Data Sheet” for maximum bHP for EPA and SCAQMD permitting purposes.
## DIMENSIONS AND WEIGHTS*

### OPEN SET (Includes Exhaust Flex)

<table>
<thead>
<tr>
<th>Run Time Hours</th>
<th>Usable Capacity - Gal (L)</th>
<th>L x W x H - in (mm)</th>
<th>Minimum Weight - lbs (kg)</th>
<th>Maximum Weight - lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Tank</td>
<td></td>
<td></td>
<td>137.5 (3,493) x 57.6 (1,463) x 67.8 (1,722)</td>
<td>5,377 (2,439)</td>
</tr>
<tr>
<td>7</td>
<td>183 (693)</td>
<td></td>
<td>137.5 (3,493) x 57.6 (1,463) x 80.8 (2,052)</td>
<td>6,325 (2,869)</td>
</tr>
<tr>
<td>17</td>
<td>438 (1,658)</td>
<td></td>
<td>137.5 (3,493) x 57.6 (1,463) x 92.8 (2,357)</td>
<td>9,997 (4,535)</td>
</tr>
<tr>
<td>27</td>
<td>946 (3,581)</td>
<td></td>
<td>137.5 (3,493) x 57.6 (1,463) x 104.8 (2,662)</td>
<td>6,973 (3,163)</td>
</tr>
<tr>
<td>37</td>
<td>1,325 (5,016)</td>
<td></td>
<td>137.5 (3,493) x 57.6 (1,463) x 107.2 (2,722)</td>
<td>9,417 (4,272)</td>
</tr>
</tbody>
</table>

### WEATHER PROTECTED ENCLOSURE

<table>
<thead>
<tr>
<th>Run Time - Hours</th>
<th>Usable Capacity - Gal (L)</th>
<th>L x W x H - in (mm)</th>
<th>Steel Weight Minimum - lbs (kg)</th>
<th>Steel Weight Maximum - lbs (kg)</th>
<th>Aluminum Weight Minimum - lbs (kg)</th>
<th>Aluminum Weight Maximum - lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Tank</td>
<td></td>
<td></td>
<td>174.7 (4,373) x 57.7 (1,460) x 77.7 (1,977)</td>
<td>8,274 (3,753)</td>
<td>8,829 (4,005)</td>
<td>7,478 (3,392)</td>
</tr>
<tr>
<td>7</td>
<td>183 (693)</td>
<td></td>
<td>174.7 (4,373) x 57.7 (1,460) x 102.8 (2,612)</td>
<td>9,997 (4,535)</td>
<td>10,583 (4,801)</td>
<td>8,738 (3,964)</td>
</tr>
<tr>
<td>17</td>
<td>438 (1,658)</td>
<td></td>
<td>174.7 (4,373) x 57.7 (1,460) x 114.8 (2,917)</td>
<td>9,997 (4,535)</td>
<td>10,583 (4,801)</td>
<td>9,074 (4,116)</td>
</tr>
<tr>
<td>27</td>
<td>946 (3,581)</td>
<td></td>
<td>208.0 (5,283) x 57.7 (1,460) x 118.8 (3,016)</td>
<td>11,299 (5,125)</td>
<td>11,854 (5,377)</td>
<td>10,503 (4,764)</td>
</tr>
<tr>
<td>37</td>
<td>1,325 (5,016)</td>
<td></td>
<td>277.8 (7,055) x 57.7 (1,460) x 107.2 (2,722)</td>
<td>9,417 (4,272)</td>
<td>11,370 (5,158)</td>
<td>10,503 (4,764)</td>
</tr>
</tbody>
</table>

### LEVEL 1 SOUND ATTENUATED ENCLOSURE

<table>
<thead>
<tr>
<th>Run Time - Hours</th>
<th>Usable Capacity - Gal (L)</th>
<th>L x W x H - in (mm)</th>
<th>Steel Weight Minimum - lbs (kg)</th>
<th>Steel Weight Maximum - lbs (kg)</th>
<th>Aluminum Weight Minimum - lbs (kg)</th>
<th>Aluminum Weight Maximum - lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Tank</td>
<td></td>
<td></td>
<td>200.2 (5,084) x 57.5 (1,460) x 90.8 (2,306)</td>
<td>8,277 (3,753)</td>
<td>8,929 (4,005)</td>
<td>7,748 (3,483)</td>
</tr>
<tr>
<td>7</td>
<td>183 (693)</td>
<td></td>
<td>200.2 (5,084) x 57.5 (1,460) x 102.8 (2,612)</td>
<td>9,997 (4,535)</td>
<td>10,583 (4,801)</td>
<td>8,738 (3,964)</td>
</tr>
<tr>
<td>17</td>
<td>438 (1,658)</td>
<td></td>
<td>200.2 (5,084) x 57.5 (1,460) x 114.8 (2,917)</td>
<td>9,997 (4,535)</td>
<td>10,583 (4,801)</td>
<td>9,074 (4,116)</td>
</tr>
<tr>
<td>27</td>
<td>946 (3,581)</td>
<td></td>
<td>208.0 (5,283) x 57.5 (1,460) x 118.8 (3,016)</td>
<td>11,299 (5,125)</td>
<td>11,854 (5,377)</td>
<td>10,503 (4,764)</td>
</tr>
<tr>
<td>37</td>
<td>1,325 (5,016)</td>
<td></td>
<td>277.8 (7,055) x 57.5 (1,460) x 117.2 (3,016)</td>
<td>11,777 (5,326)</td>
<td>12,346 (5,581)</td>
<td>11,717 (5,316)</td>
</tr>
</tbody>
</table>

### LEVEL 2 SOUND ATTENUATED ENCLOSURE

<table>
<thead>
<tr>
<th>Run Time - Hours</th>
<th>Usable Capacity - Gal (L)</th>
<th>L x W x H - in (mm)</th>
<th>Steel Weight Minimum - lbs (kg)</th>
<th>Steel Weight Maximum - lbs (kg)</th>
<th>Aluminum Weight Minimum - lbs (kg)</th>
<th>Aluminum Weight Maximum - lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Tank</td>
<td></td>
<td></td>
<td>180.6 (4,586) x 57.5 (1,460) x 107.3 (2,725)</td>
<td>7,926 (3,595)</td>
<td>8,512 (3,861)</td>
<td>7,926 (3,595)</td>
</tr>
<tr>
<td>7</td>
<td>183 (693)</td>
<td></td>
<td>180.6 (4,586) x 57.5 (1,460) x 120.3 (3,055)</td>
<td>10,258 (4,603)</td>
<td>10,844 (4,919)</td>
<td>9,873 (4,370)</td>
</tr>
<tr>
<td>17</td>
<td>438 (1,658)</td>
<td></td>
<td>180.6 (4,586) x 57.5 (1,460) x 132.3 (3,055)</td>
<td>10,906 (4,947)</td>
<td>11,492 (5,213)</td>
<td>9,922 (4,399)</td>
</tr>
<tr>
<td>27</td>
<td>946 (3,581)</td>
<td></td>
<td>208.3 (5,295) x 57.5 (1,460) x 148.3 (3,765)</td>
<td>12,350 (5,595)</td>
<td>12,941 (5,681)</td>
<td>11,951 (5,467)</td>
</tr>
<tr>
<td>37</td>
<td>1,325 (5,016)</td>
<td></td>
<td>277.8 (7,055) x 57.5 (1,460) x 146.7 (3,725)</td>
<td>13,350 (6,006)</td>
<td>13,936 (6,322)</td>
<td>11,966 (5,428)</td>
</tr>
</tbody>
</table>

* All measurements are approximate and for estimation purposes only. Specification characteristics may change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.