Standby Power Rating
750 kW, 938 kVA, 60 Hz

Prime Power Rating*
675 kW, 844 kVA, 60 Hz

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

- UL2200, UL6200, UL1236, UL489, UL142
- CSA C22.2, ULC S601
- 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

**Powering Ahead**
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)

**FUEL SYSTEM**
- Flexible Fuel Lines
- Primary and Secondary 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-Booted 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

**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

**FUEL TANKS (If Selected)**
- UL 142/ULC S601
- Double Wall
- Vents
- Factory Pressure Tested (2 psi)
- Rupture Basin Alarm
- Fuel Level
- Check Valve In Supply and Return Lines
- Stainless Steel Hardware
- Fuel Line Hose
- Fuel Line Hose and Separator
- Electronic Fuel Level
- Secondary Fuel Filter

**CONTROL SYSTEM**
- Auto/Off/Manual Switch
- Customizable Alarms, Warnings, and Events
- Modbus® Protocol
- Predictive Maintenance Algorithm
- Sealed Boards
- Password Parameter Adjustment Protection
- Single Point Ground
- 16 Channel Remote Trending
- 0.2 msec High Speed Remote Trending
- Alarm Information Automatically Announced on the Display

**InteliGen® NT Display**
- Program Functions
  - Programmable Crank Limiter
  - 7-Day Programmable Exerciser
  - Special Applications Programmable Logic Controller
  - RS-232/485 Communications
  - 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)

**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)

**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
**CONFIGURABLE OPTIONS**

<table>
<thead>
<tr>
<th>ENGINE SYSTEM</th>
<th>50° Ambient Cooling System</th>
<th>Hospital Grade Silencers</th>
<th>CCV (Closed Crankcase Ventilation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECTRICAL SYSTEM</td>
<td>10A UL Listed Battery Charger</td>
<td>20A UL Listed Battery Charger</td>
<td>Battery Warmer</td>
</tr>
<tr>
<td>ALTERNATOR SYSTEM</td>
<td>Alternator Upsizing</td>
<td>Anti-Condensation Heater</td>
<td></td>
</tr>
<tr>
<td>CIRCUIT BREAKER OPTIONS</td>
<td>Main Line Circuit Breaker</td>
<td>2nd Main Line Circuit Breaker</td>
<td>Shunt Trip and Auxiliary Contact</td>
</tr>
<tr>
<td>WARRANTY (Standby Gensets Only)</td>
<td>2 Year Extended Limited Warranty</td>
<td>5 Year Limited Warranty</td>
<td>5 Year Extended Limited Warranty</td>
</tr>
<tr>
<td>FUEL TANKS (Size on Last Page)</td>
<td>12 Hour Run Time</td>
<td>24 Hour Run Time</td>
<td></td>
</tr>
<tr>
<td>ENGINEERED OPTIONS</td>
<td>Coolant Heater Ball Valves</td>
<td>Oil Heater</td>
<td>Fuel Cooler</td>
</tr>
<tr>
<td>ALTERNATOR SYSTEM</td>
<td>3rd Main Line Circuit Breaker</td>
<td>4th Main Line Circuit Breaker</td>
<td>Unit Mounted Load Banks</td>
</tr>
<tr>
<td>CONTROL SYSTEM</td>
<td>Spare Inputs (x4) / Outputs (x4)</td>
<td>Battery Disconnect Switch</td>
<td>PM-SCI</td>
</tr>
<tr>
<td>FUEL TANKS</td>
<td>Overfill Protection Valve</td>
<td>UL2085 Tank</td>
<td>Special Fuel Tanks</td>
</tr>
<tr>
<td>GENERATOR SET</td>
<td>Special Testing</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
ENGINE SPECIFICATIONS

General
Make: Mitsubishi
Engine Mode: S12A2-Y2PTAW-2
EPA Emissions Compliance: Tier 2
EPA Emissions Reference: See Emission Data Sheet
Cylinder #: 12
Type: 4 Cycle
Displacement - in³ (L): 2,071 (33.9)
Bore - in (mm): 5.91 (150)
Stroke - in (mm): 6.30 (160)
Compression Ratio: 15.3:1
Intake Air Method: Turbocharged/Intercooled
Cylinder Head: 4-Valve
Piston Type: Aluminum
Crankshaft Type: Dropped Forged Steel

Engine Governing
Governor: Proact2 Isochronous
Frequency Regulation (Steady State): ±0.25%

Lubrication System
Oil Pump Type: Gear
Oil Filter Type: Cartridge
Crankcase Capacity - qt (L): 106 (100)

Fuel System
Fuel Type: Ultra Low Sulfur Diesel Fuel #2
Fuel Specifications: ASTM
Fuel Filtering (Microns): 10 (Final Filters)
Fuel Inject Pump: Mechanical
Fuel Pump Type: Engine Driven Gear
Injector Type: Bosch P-Type
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

APPLICATION AND ENGINEERING DATA

ALTERNATOR SPECIFICATIONS
Standard Model: K0820124Y21
Poles: 4
Field Type: Rotating
Insulation Class - Rotor: H
Insulation Class - Stator: H
Total Harmonic Distortion: <5%
Telephone Interference Factor (TIF): <50

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%
## OPERATING DATA

### POWER RATINGS

<table>
<thead>
<tr>
<th>Variant</th>
<th>Power</th>
<th>Amps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three-Phase 120/208 VAC @0.8pf</td>
<td>750 kW</td>
<td>2,602</td>
</tr>
<tr>
<td>Three-Phase 277/480 VAC @0.8pf</td>
<td>750 kW</td>
<td>1,128</td>
</tr>
<tr>
<td>Three-Phase 346/600 VAC @0.8pf</td>
<td>750 kW</td>
<td>902</td>
</tr>
</tbody>
</table>

### MOTOR STARTING CAPABILITIES (skVA)

<table>
<thead>
<tr>
<th>skVA vs. Voltage Dip</th>
<th>277/480 VAC 30%</th>
<th>208/240 VAC 30%</th>
</tr>
</thead>
<tbody>
<tr>
<td>K0820124Y22</td>
<td>2,560</td>
<td>K0912124Y22</td>
</tr>
<tr>
<td>K0912124Y22</td>
<td>3,250</td>
<td></td>
</tr>
</tbody>
</table>

### FUEL CONSUMPTION RATES*

| Fuel Pump Lift | 3 (1) | Total Fuel Pump Flow (Combustion + Return) | 148 (560) |

### COOLING

<table>
<thead>
<tr>
<th>Standby</th>
<th>Standby</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coolant Flow</td>
<td>291 (1,100)</td>
</tr>
<tr>
<td>Coolant System Capacity</td>
<td>65 (246)</td>
</tr>
<tr>
<td>Heat Rejection to Coolant</td>
<td>1,158,420 (340)</td>
</tr>
<tr>
<td>Inlet Air - 40 °C Cooling Package cfm (m³/min)</td>
<td>31,800 (900)</td>
</tr>
<tr>
<td>Inlet Air - 50 °C Cooling Package cfm (m³/min)</td>
<td>34,500 (977)</td>
</tr>
<tr>
<td>Maximum Additional Radiator Backpressure in H₂O (kPa)</td>
<td>0.5 (0.12)</td>
</tr>
</tbody>
</table>

### COMBUSTION AIR REQUIREMENTS

<table>
<thead>
<tr>
<th>Standby</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow at Rated Power - cfm (m³/min)</td>
</tr>
</tbody>
</table>

### ENGINE

<table>
<thead>
<tr>
<th>Standby</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Engine Speed RPM</td>
</tr>
<tr>
<td>Horsepower at Rated kW</td>
</tr>
<tr>
<td>Piston Speed</td>
</tr>
<tr>
<td>BMEP psi (kPa)</td>
</tr>
</tbody>
</table>

### EXHAUST

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

---

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

** 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 0187500SSB
Prime - See Bulletin 0187510SSB
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency

**DIMENSIONS AND WEIGHTS***

### OPEN SET

<table>
<thead>
<tr>
<th>Run Time</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>177.7 (4,515) x 82.6 (2,099) x 94.0 (2,389)</td>
<td>22,496 (10,204)</td>
</tr>
<tr>
<td>12</td>
<td>800 (3,029)</td>
<td>201.0 (5,105) x 96.0 (2,438) x 118.2 (3,002)</td>
<td>26,446 (11,996)</td>
</tr>
<tr>
<td>24</td>
<td>1,600 (6,058)</td>
<td>201.0 (5,105) x 96.0 (2,438) x 131.2 (3,332)</td>
<td>27,822 (12,620)</td>
</tr>
</tbody>
</table>

### WEATHER PROTECTED ENCLOSURE

<table>
<thead>
<tr>
<th>Run Time</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>235.0 (5,969) x 98.0 (2,489) x 170.3 (4,326)</td>
<td>5,553 (2,519)</td>
</tr>
<tr>
<td>12</td>
<td>800 (3,029)</td>
<td>235.0 (5,969) x 98.0 (2,489) x 187.3 (4,758)</td>
<td>5,553 (2,519)</td>
</tr>
<tr>
<td>24</td>
<td>1,600 (6,058)</td>
<td>235.0 (5,969) x 98.0 (2,489) x 200.3 (5,088)</td>
<td>4,394 (1,994)</td>
</tr>
</tbody>
</table>

### LEVEL 1 SOUND ATTENUATED ENCLOSURE

<table>
<thead>
<tr>
<th>Run Time</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>Contact Factory</td>
<td>8,958 (4,064)</td>
</tr>
<tr>
<td>12</td>
<td>800 (3,029)</td>
<td>Contact Factory</td>
<td>7,799 (3,538)</td>
</tr>
<tr>
<td>24</td>
<td>1,600 (6,058)</td>
<td>Contact Factory</td>
<td>6,853 (3,109)</td>
</tr>
</tbody>
</table>

### LEVEL 2 SOUND ATTENUATED ENCLOSURE

<table>
<thead>
<tr>
<th>Run Time</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>339.9 (6,833) x 150.0 (3,810) x 169.3 (4,299)</td>
<td>10,137 (4,999)</td>
</tr>
<tr>
<td>12</td>
<td>800 (3,029)</td>
<td>340.0 (8,638) x 150.0 (3,810) x 169.2 (4,298)</td>
<td>6,853 (3,109)</td>
</tr>
<tr>
<td>24</td>
<td>1,600 (6,058)</td>
<td>340.0 (8,638) x 150.0 (3,810) x 178.2 (4,526)</td>
<td>10,137 (4,999)</td>
</tr>
</tbody>
</table>

* All measurements are approximate and for estimation purposes only.

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*YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER*

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