Standby Power Rating
1,250 kW, 1,563 kVA, 60 Hz

Prime Power Rating*
1,125 kW, 1,406 kVA, 60 Hz

*EPA Certified Prime ratings are not available in the US or its Territories

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


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.
**STANDARD FEATURES**

**ENGINE SYSTEM**
- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Radiator Duct Adapter (Open Set Only)
- Engine Coolant Heater
- Critical Grade Silencer (Enclosed Units Only)

**Fuel System**
- 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-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 - Dual 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

**CONTROL SYSTEM**

**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)
- 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 Annunciated on the Display

**FUEL TANKS (If Selected)**
- UL 142
- 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

**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 and Hospital Grade Silencers
- Critical Grade Exhaust (Open Set Only)
- CCV (Closed Crankcase Ventilation)
- Engine Drain Kit
- Air Cleaner with Indicator

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

ALTERNATOR SYSTEM
- Alternator Upsizing
- Anti-Condensation Heater

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

CONFIGURABLE OPTIONS

ENGINE SET
- Spring Isolators (Standard/Seismic)

ENCLOSURE
- Weather Protected Enclosure
- Level 1 Sound Attenuated with Motorized Dampers
- Level 2 Sound Attenuated with Motorized Dampers
- Steel Enclosure
- Aluminum Enclosure
- Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- Louvers with Gravity Dampers
- Enclosure Heaters (Motorized Dampers Only)
- AC Electrical Lighting Package (ELP)
  - Enclosure Heater

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

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

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

ENGINEERED OPTIONS

ENGINE SYSTEM
- Coolant Heater Ball Valves
- Oil Heater
- Fuel Cooler
- High Lift Pumps
- Heavy Duty Air Filters (Open Set Only)

ALTERNATOR SYSTEM
- 3rd Breaker System
- 4th Breaker Options
- Unit Mounted Load Banks
- Medium Voltage Alternators
- Digital Voltage Regulator

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

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

ENCLOSURE
- Door Open Alarm Switch
- Level 3 Sound Attenuated Enclosure
- Custom Enclosure

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

**General**
- **Make**: Mitsubishi
- **Model**: S12R-Y2PTAW-1
- **EPA Emissions Compliance**: Tier 2
- **EPA Emissions Reference**: See Emission Data Sheet
- **Cylinder #**: 12
- **Type**: 4 Cycle - V12
- **Displacement - in³ (L)**: 2,992 (49.0)
- **Bore - in (mm)**: 6.69 (170)
- **Stroke - in (mm)**: 7.09 (180)
- **Compression Ratio**: 14.5:1
- **Intake Air Method**: Turbocharged/Intercooled
- **Cylinder Head**: 4-Valve
- **Piston Type**: Aluminum
- **Crankshaft Type**: Dropped Forged Steel

**Engine Governing**
- **Governor**: Electronic
- **Frequency Regulation (Steady State)**: ±0.25%

**Lubrication System**
- **Oil Pump Type**: Gear
- **Oil Filter Type**: Cartridge
- **Crankcase Capacity - qt (L)**: 158.5 (150)

**Cooling System**
- **Cooling System Type**: Unit Mounted Radiator
- **Water Pump Type**: Centrifugal
- **Fan Type**: Pusher
- **Fan Speed - RPM**: 710
- **Fan Diameter - in (mm)**: 88 (2,235)

**Fuel System**
- **Fuel Type**: Ultra Low Sulfur Diesel #2
- **Fuel Specifications**: ASTM
- **Fuel Filtering (Microns)**: 10 (Final Filters)
- **Fuel Inject Pump Make**: Mitsubishi PS8 Type x 2
- **Fuel Supply Line - in (mm)**: 0.75" NPT (19.0)
- **Fuel Return Line - in (mm)**: 0.75" NPT (19.0)

**Engine Electrical System**
- **System Voltage**: 24 VDC
- **Battery Charger Alternator**: Standard
- **Battery Size**: See Battery Index 0161970SBY
- **Battery Voltage**: (4) - 12 VDC
- **Ground Polarity**: Negative

**ALTERNATOR SPECIFICATIONS**

- **Standard Model**: K2112064N22
- **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%
**IDLC1250 | 49.0L | 1,250 kW**

**INDUSTRIAL DIESEL GENERATOR SET**
EPA Certified Stationary Emergency

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### OPERATING DATA

#### POWER RATINGS

<table>
<thead>
<tr>
<th></th>
<th>Standby</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three-Phase 277/480 VAC @0.8pf</td>
<td>1,250 kW</td>
</tr>
<tr>
<td>Three-Phase 346/600 VAC @0.8pf</td>
<td>1,250 kW</td>
</tr>
</tbody>
</table>

#### MOTOR STARTING CAPABILITIES (skVA)

<table>
<thead>
<tr>
<th>skVA vs. Voltage Dip</th>
<th>277/480 VAC</th>
<th>30%</th>
</tr>
</thead>
<tbody>
<tr>
<td>K2112064N22</td>
<td>7.709</td>
<td></td>
</tr>
<tr>
<td>K2268064N22</td>
<td>9.417</td>
<td></td>
</tr>
</tbody>
</table>

#### FUEL CONSUMPTION RATES*

| Fuel Pump Lift- ft (m) | 3 (1) | Total Fuel Pump Flow (Combustion + Return) - gph (Lph) | 127 (479) |

#### FUEL CONSUMPTION RATES*

<table>
<thead>
<tr>
<th>Diesel - gph (Lph)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent Load</td>
</tr>
<tr>
<td>25%</td>
</tr>
<tr>
<td>50%</td>
</tr>
<tr>
<td>75%</td>
</tr>
<tr>
<td>100%</td>
</tr>
</tbody>
</table>

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

#### COOLING

<table>
<thead>
<tr>
<th>Coolant Flow</th>
<th>Coolant System Capacity</th>
<th>489 (1,851)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heat Rejection to Coolant</td>
<td>BTU/hr (kW)</td>
<td>1,829,920 (536)</td>
</tr>
<tr>
<td>Inlet Air- 40°C Cooling Package</td>
<td>scfm (m³/min)</td>
<td>66,100 (1,872)</td>
</tr>
<tr>
<td>Inlet Air- 50°C Cooling Package</td>
<td>scfm (m³/min)</td>
<td>70,800 (2,005)</td>
</tr>
<tr>
<td>Max. Operating Ambient Temp</td>
<td>°F (°C)</td>
<td>104 (40)</td>
</tr>
<tr>
<td>Max Operating Ambient Temperature (Before Derate)</td>
<td>see Bulletin No. 0199270SSD</td>
<td></td>
</tr>
<tr>
<td>Maximum Additional Radiator Backpressure</td>
<td>in H₂O (kPa)</td>
<td>0.5 (0.12)</td>
</tr>
</tbody>
</table>

#### COMBUSTION AIR REQUIREMENTS

| Flow at Rated Power - scfm (m³/min) | 4,767 (135) |

#### ENGINE

| Rated Engine Speed (RPM) | 1,800 |
| Horsepower at Rated kW** (hp) | 1,881 |
| Piston Speed (ft/min (m/min)) | 2,126 (648) |
| BMEP (psi (kPa)) | 276 (1,903) |

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

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**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**
**INDUSTRIAL DIESEL GENERATOR SET**

**EPA Certified Stationary Emergency**

**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>Weight - lbs (kg) (Enclosure Only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Tank</td>
<td>-</td>
<td>215.7 (5,478) x 93.0 (2,362) x 115.1 (2,924)</td>
<td>26,045 (11,814)</td>
</tr>
<tr>
<td>12</td>
<td>1,250 (4,732)</td>
<td>243.0 (6,172) x 116.0 (2,945) x 132.1 (3,356)</td>
<td>Contact Factory</td>
</tr>
<tr>
<td>24</td>
<td>2,500 (9,464)</td>
<td>243.0 (6,172) x 116.0 (2,945) x 148.0 (3,759)</td>
<td>Contact Factory</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>Weight - lbs (kg) (Enclosure Only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Tank</td>
<td>-</td>
<td>244.0 (6,198) x 110.0 (2,791) x 184.0 (4,661)</td>
<td>Contact Factory</td>
</tr>
<tr>
<td>12</td>
<td>1,250 (4,732)</td>
<td>264.0 (6,698) x 110.0 (2,791) x 201.0 (5,093)</td>
<td>Contact Factory</td>
</tr>
<tr>
<td>24</td>
<td>2,500 (9,464)</td>
<td>264.0 (6,698) x 110.0 (2,791) x 217.0 (5,499)</td>
<td>Contact Factory</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>Weight - lbs (kg) (Enclosure Only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Tank</td>
<td>-</td>
<td>327.0 (8,306) x 119.0 (3,021) x 184.0 (4,674)</td>
<td>Contact Factory</td>
</tr>
<tr>
<td>12</td>
<td>1,250 (4,732)</td>
<td>330.0 (8,382) x 119.0 (3,021) x 206.3 (5,239)</td>
<td>Contact Factory</td>
</tr>
<tr>
<td>24</td>
<td>2,500 (9,464)</td>
<td>330.0 (8,382) x 119.0 (3,021) x 208.0 (5,284)</td>
<td>Contact Factory</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>Weight - lbs (kg) (Enclosure Only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Tank</td>
<td>-</td>
<td>404.0 (10,268) x 262.0 (6,666) x 126.0 (3,209)</td>
<td>Contact Factory</td>
</tr>
<tr>
<td>12</td>
<td>1,250 (4,732)</td>
<td>404.0 (10,268) x 262.0 (6,666) x 140.0 (3,565)</td>
<td>Contact Factory</td>
</tr>
<tr>
<td>24</td>
<td>2,500 (9,464)</td>
<td>404.0 (10,268) x 262.0 (6,666) x 150.0 (3,819)</td>
<td>Contact Factory</td>
</tr>
</tbody>
</table>

* All measurements and weights 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.