EPA Certified Stationary Emergency



Standby Power Rating 350 kW, 438 kVA, 60 Hz

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





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

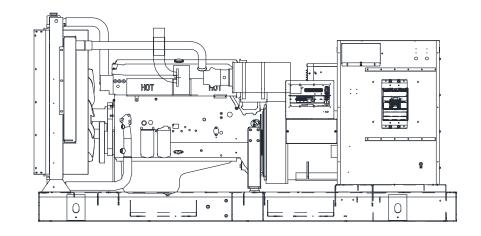


Image used for illustration purposes only

Codes and Standards

Generac products are designed to the following standards:



UL2200, UL508, UL142, UL489



NFPA 37, 70, 99, 110



NEC700, 701, 702, 708



ISO 3046, 7637, 8528, 9001



NEMA ICS10, MG1, 250, ICS6, AB1



ANSI C62.41





IBC 2009, CBC 2010, IBC 2012, ASCE 7-05, ASCE 7-10, ICC-ES AC-156 (2012)

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.

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

STANDARD OPTIONS

ENGINE SYSTEM

- · Oil Drain Extension
- · Heavy Duty Air Cleaner
- Fan Guard
- · Stainless Steel Flexible Exhaust Connection
- · Factory Filled Oil & Coolant
- Radiator Duct Adapter (Open Set Only)

Fuel System

- · Fuel Lockoff Solenoid
- · Secondary Fuel Filter

Cooling System

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

Electrical System

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

ALTERNATOR SYSTEM

- GENprotect[™]
- 12 Leads (3-Phase, Non 600V)
- · Class H Insulation Material
- · Vented Rotor
- 2/3 Pitch
- · Skewed Stator
- Auxiliary Voltage Regulator Power Winding
- Permanent Magnet Excitation
- · Sealed Bearing
- Automated Manufacturing (Winding, Insertion, Lacing, Varnishing)
- Rotor Dynamically Spin Balanced
- Amortisseur Winding
- 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)
- 1 Year Limited Warranty (Prime Rated Units)
- Silencer Mounted in the Discharge Hood (Enclosed Only)

ENCLOSURE (if selected)

GENERAC[®]

 Rust-Proof Fasteners with Nylon Washers to Protect Finish

INDUSTRIAL

- High Performance Sound-Absorbing Material (Sound Attenuation Enclosures)
- Gasketed Doors
- · Stamped Air-Intake Louvers
- Upward Facing Discharge Hoods (Radiator and Exhaust)
- · Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- Rhino Coat[™] Textured Polyester Powder Coat Paint

TANKS (if selected)

- UL 142
- Double Wall
- Vents
- · Sloped Top
- Sloped Bottom
- Factory Pressure Tested (2 psi)
- Rupture Basin Alarm
- Fuel Level
- Check Valve In Supply and Return Lines
- Rhino Coat[™] Textured Polyester Powder Coat Paint
- · Stainless Steel Hardware

CONTROL SYSTEM

Digital G Paralleling Control Panel -Touchscreen

Program Functions

- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable Logic Controller
- RS-232/485 Communications
- 3 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)
- Auto/Off/Manual SwitchE-Stop (Red Mushroom-Type)

- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus[®] protocol
- Predictive Maintenance Algorithm
- · Sealed Boards
- Password Parameter Adjustment Protection
- Single Point Ground
- 16 Channel Remote Trending
- 0.2msec High Speed Remote Trending
- Alarm Information Automatically Annunciated on the Display

Full System Status Display

- Power Output (kW)
- Power Factor
- kW Hours, Total & 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 & Warnings Time and Date Stamped
- Snap Shots of Key Operation Parameters During Alarms & Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)

PARALLELING CONTROLS

- Auto-Synchronization Process
- · Isochronous Load Sharing
- Reverse Power Protection

- Maximum Power Protection
- Electrically Operated, Mechanically Held Paralleling Switch
- Sync Check System
 - Independent On-Board Paralleling
- Optional Programmable Logic Full Auto Back-Up Controls (PLS)
- Shunt Trip and Auxiliary Contact

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

CONFIGURABLE OPTIONS

ENGINE SYSTEM

- Oil Make-Up System
- Oil Heater
- O Critical Exhaust Silencer

FUEL SYSTEM

- O Flexible Fuel Lines
- O Primary Fuel Filter

ELECTRICAL SYSTEM

- O 10A UL Battery Charger
- O Battery Warmer

ALTERNATOR SYSTEM

- Alternator Upsizing
- O Anti-Condensation Heater
- O Tropical Coating

CIRCUIT BREAKER OPTIONS

- Main Line Circuit Breaker
- O Electronic Trip Breakers

GENERATOR SET

- O GenLink® Communications Software (English Only)
- O IBC Seismic Certification
- 2 Year Extended Warranty
- 5 Year Warranty
- O 5 Year Extended Warranty
- 7 Year Extended Warranty
- 10 Year Extended Warranty

ENCLOSURE

- Weather Protected
- O Level 1 Sound Attenuation
- O Level 2 Sound Attenuation
- Steel Enclosure
- O Aluminum Enclosure
- O Up to 200 MPH Wind Load Rating*
- O AC/DC Enclosure Lighting Kit

CONTROL SYSTEM

GENERAC

O NFPA 110 Compliant 21-Light Remote Annunciator

INDUSTRIAL

- O Remote Relay Assembly (8 or 16)
- Oil Temperature Sender with Indication Alarm
- O Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- O Remote Communication Modem
- O Remote Communication Ethernet
- O 10A Run Relay
- O Ground Fault Indication and Protection Functions

TANKS (SIZE ON LAST PAGE)

- O Electric Fuel Level
- Mechanical Fuel Level
- O 8" Fill Extension
- O 13" Fill Extension
- 19" Fill Extension

ENGINEERED OPTIONS

ENGGINE SYSTEM

- O Coolant Heater Ball Valves
- O Fluid Containment Pan

CONTROL SYSTEM

O Battery Disconnect Switch

ALTERNATOR SYSTEM

O 2nd Breaker System

GENERATOR SET

Special Testing

ENCLOSURE

Motorized Dampers

TANKS

- Overfill Protection Valve
- O UL2085 Tank
- O ULC S-601 Tank
- Special Fuel Tanks
- Vent Extensions

RATING DEFINITIONS

Standby - Applicable for a varying emergency load for the duration of a utility power outage with no overload capability.

Prime - Applicable for supplying power to a varying load in lieu of utility for an unlimited amount of running time. A 10% overload capacity is available for 1 out of every 12 hours. The Prime Power option is only available on International applications. Power ratings in accordance with ISO 8528-1, Second Edition.

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

ENGINE SPECIFICATIONS

APPLICATION AND ENGINEERING DATA

| G | er | ne. | ra | |
|---|----|-----|----|--|

| Make | Iveco/FPT |
|-------------------------------------|--------------------------|
| EPA Emissions Compliance | Stationary Emergency |
| EPA Emissions Reference | See Emissions Data Sheet |
| Cylinder # | 6 |
| Туре | In-Line |
| Displacement - L (cu in) | 12.9 |
| Bore - mm (in) | 134.6 (5.3) |
| Stroke - mm (in) | 149.9 (5.9) |
| Compression Ratio | 16.5:1 |
| Intake Air Method | Turbocharged/Aftercooled |
| Cylinder Head Type | 4-Valved |
| Piston Type | Aluminum |
| Crankshaft Type | Dropped Forged Steel |
| | |
| Engine Governing | |
| Governor | Electronic Isochronous |
| Frequency Regulation (Steady State) | ±0.25% |

Cooling System

| Cooling System Type | Closed |
|------------------------|-------------------------|
| Water Pump Type | Belt Driven Centrifugal |
| Fan Type | Pusher |
| Fan Speed (rpm) | 2466 |
| Fan Diameter - mm (in) | 762 (30.0) |

Fuel System

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

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 | | |

Lubrication System

| Oil Pump Type | Gear |
|------------------------------|-----------|
| Oil Filter Type | Full Flow |
| Crankcase Capacity - L (qts) | 35 (36.9) |

ALTERNATOR SPECIFICATIONS

| Standard Model | 520 mm Generac |
|-------------------------------------|----------------|
| Poles | 4 |
| Field Type | Revolving |
| Insulation Class - Rotor | Н |
| Insulation Class - Stator | Н |
| Total Harmonic Distortion | <5% |
| Telephone Interference Factor (TIF) | <50 |

| Standard Excitation | Permanent Magnet |
|------------------------------------|--------------------------|
| Bearings | One - Pre Lubed & Sealed |
| Coupling | Direct, Flexible Disc |
| Load Capacity- Standby | 100% |
| Prototype Short Circuit Test | Yes |
| Voltage Regulator Type | Full Digital |
| Number of Sensed Phases | 3 |
| Regulation Accuracy (Steady State) | ±0.25% |

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC INDUSTRIAL POWER

OPERATING DATA

POWER RATINGS

| | Standby | | | Prime |
|--------------------------------|---------|-----------|--------|-----------|
| Three-Phase 277/480 VAC @0.8pf | 350 kW | Amps: 527 | 315 kW | Amps: 474 |
| Three-Phase 346/600 VAC @0.8pf | 350 kW | Amps: 421 | 315 kW | Amps: 379 |

STARTING CAPABILITIES (sKVA)

sKVA vs. Voltage Dip

| 480 VAC | | | | | | | |
|------------|-----|-----|-----|-----|------|------|------|
| Alternator | kW | 10% | 15% | 20% | 25% | 30% | 35% |
| Standard | 400 | 387 | 581 | 775 | 968 | 1162 | 1356 |
| Upsize 1 | 442 | 475 | 720 | 915 | 1145 | 1030 | 1290 |
| Upsize 2 | 555 | 457 | 686 | 914 | 1143 | 1371 | 1600 |

FUEL CONSUMPTION RATES*

Diesel- gph (lph)

| Fuel Pump Lift - ft (m) | Percent Load | Standby | Prime |
|--|--------------|-------------|--------------|
| 3 (1) | 25% | 8.4 (31.8) | 7.56 (28.8) |
| | 50% | 14.5 (54.9) | 13.05 (49.6) |
| Total Fuel Pump Flow (Combustion + Return) gph (lph) | 75% | 20.1 (76.1) | 18.09 (68.5) |
| 31 (117) | 100% | 25.3 (95.8) | 22.77 (86.3) |

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

COOLING

| | | Standby | Prime |
|-------------------------------|---------------------------|----------------|----------------|
| Coolant Flow per Minute | gpm (lpm) | 145 (552) | 145 (552) |
| Heat Rejection to Coolant | BTU/hr | 932,760 | 840,590 |
| Inlet Air | cfm (m ³ /min) | 19,070 (539.7) | 19,070 (539.7) |
| Coolant System Capacity | gal (L) | 16.6 (63) | 16.6 (63) |
| Maximum Radiator Backpressure | in H ₂ O | 0.5 | 0.5 |

COMBUSTION AIR REQUIREMENTS

| | Standby | Prime |
|---|-------------|-------------|
| Flow at Rated Power cfm (m ³ /min) | 1195 (33.8) | 1076 (30.4) |

| ENGINE | | | | EXHAUST | | | |
|--------------------------|--------|---------|-------|---|---------------|-------------|--|
| | | Standby | Prime | | Standby | Prime | |
| Rated Engine Speed | rpm | 1800 | 1800 | Exhaust Flow (Rated Output) cfm (m³/mir |) 2988 (84.6) | 2808 (79.5) | |
| Horsepower at Rated kW** | hp | 530 | 477 | Max. Backpressure (Post Silencer) in Hg (Kpa) | 1.5 (5.1) | 1.5 (5.1) | |
| Piston Speed | ft/min | 1770 | 1770 | Exhaust Temp (Rated Output - Post Silencer) °F (°C) | 1076 (580) | 1076 (580) | |
| BMEP | psi | 313 | 218 | Exhaust Outlet Size (Open Set) mm (in) | 88.9 (3.5) | NPT (male) | |

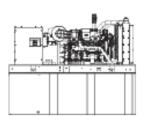
^{**} Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.

Please consult a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528 and DIN6271 standards.

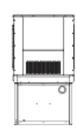
GENERAC* INDUSTRIAL POWER

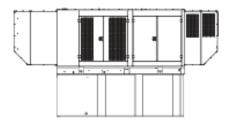
DIMENSIONS AND WEIGHTS*

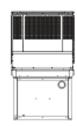


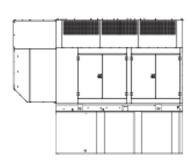


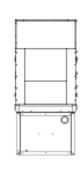












OPEN SET (Includes Exhaust Flex)

| Run Time Hours | Usable Capacity Gal (L) | LxWxH (in (mm) | Weight lbs (kg) |
|-------------------|-------------------------------|--|--------------------|
| No Tank | - | 137.5 (3493) x 57.6 (1463.1) x 67.8 (1722.3) | 7330 |
| 7 | 183 | 137.5 (3493) x 57.6 (1463.1) x 80.8 (2052.3) | 8278 (3755) |
| 17 | 438 | 137.5 (3493) x 57.6 (1463.1) x 92.8 (2357.3) | 8590 (3897) |
| 27 | 693 | 137.5 (3493) x 57.6 (1463.1) x 104.81 (2662.3) | 8893 (4026) |
| 37 | 946 | 208.3 (5291.5) x 57.6 (1463.1) x 122 (3100.3) | 10355 (4697) |
| 52 | 1325 | 277.76 (7055) x 57.6 (1463.1) x 121 (3072.3) | 11370 (5158) |
| · · · | | | (/ |

STANDARD ENCLOSURE

| Run Time Hours | Usable Capacity L x W x H (in (mm) | | Weight lbs (kç L x W x H (in (mm) Enclosure Onl | |
|-------------------|------------------------------------|--|--|--------------|
| Hours | Gal (L) | _ | Steel | Aluminum |
| No Tank | - | 174.7 (4437) x 57.7 (1460) x 77.8 (1977) | 1295 (588) | 501 (227) |
| 7 | 183 | 174.7 (4437) x 57.7 (1460) x 90.83 (2307) | | |
| 17 | 438 | 174.7 (4437) x 57.7 (1460) x 102.83 (2612) | | |
| 27 | 693 | 174.7 (4437) x 57.7 (1460) x 114.84 (2917) | | |
| 37 | 946 | 208 (5283) x 57.7 (1460) x 132 (3355) | | |
| 52 | 1325 | 278 (7061) x 57.7 (1460) x 130.98 (3327) | | |

LEVEL 1 ACOUSTIC ENCLOSURE

| Run Time Hours | Usable Capacity L x W x H (in (mm) | | Weight lbs (kg L x W x H (in (mm) Enclosure Only | |
|-------------------|------------------------------------|--|---|----------|
| HOUIS | Gal (L) | _ | Steel | Aluminum |
| No Tank | - | 200 (5084) x 57.7 (1460) x 78 (1981) | 1470 | 935 |
| 7 | 183 | 200 (5084) x 57.7 (1460) x 91 (2311) | | |
| 17 | 438 | 200 (5084) x 57.7 (1460) x 103 (2616) | | |
| 27 | 693 | 200 (5084) x 57.7 (1460) x 115 (2921) | (667) | (425) |
| 37 | 946 | 208.32 (5291.5) x 57.7 (1460) x 118 (2997) | | |
| 52 | 1325 | 277.76 (7055) x 57.7 (1460) x 118 (2997) | | |
| | | | | |

LEVEL 2 ACOUSTIC ENCLOSURE

| Usable Capacity L x W x H (in (mm) | | lbs (kg) ure Only |
|------------------------------------|---|---|
| | Steel | Aluminum |
| 4588) x 57.7 (1460) x 107.2 (2724) | 2515 (1141) | 1131 (514) |
| (4588) x 57.7 (1460) x 120 (3048) | | |
| (4588) x 57.7 (1460) x 132 (3353) | | |
| (4588) x 57.7 (1460) x 144 (3658) | | |
| 7366) x 57.7 (1460) x 116 (2946) | | |
| 7061) x 57.7 (1460) x 147 (3734) | | |
| | L x W x H (in (mm) 4588) x 57.7 (1460) x 107.2 (2724) (4588) x 57.7 (1460) x 120 (3048) (4588) x 57.7 (1460) x 132 (3353) (4588) x 57.7 (1460) x 144 (3658) 7366) x 57.7 (1460) x 116 (2946) 7061) x 57.7 (1460) x 147 (3734) | L x W x H (in (mm) Enclose Steel 4588) x 57.7 (1460) x 107.2 (2724) (4588) x 57.7 (1460) x 120 (3048) (4588) x 57.7 (1460) x 132 (3353) (4588) x 57.7 (1460) x 144 (3658) (1141) (7366) x 57.7 (1460) x 116 (2946) |

Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

^{*} All measurements are approximate and for estimation purposes only.