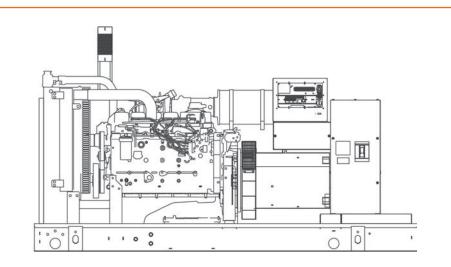
INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

**STANDBY POWER RATING** 

100 kW, 125 kVA, 60 Hz

PRIME POWER RATING\* 90 kW, 113 kVA, 60 Hz



\*Built in the USA using domestic and foreign parts

\*EPA Certified Prime ratings are not available in the U.S. or its Territories.

\*\*Certain options or customization may not hold certification valid.

Image used for illustration purposes only

## **CODES AND STANDARDS**

Generac products are designed to the following standards:



UL2200, UL508, UL142, UL498



NFPA70, 99, 110, 37



NEC700, 701, 702, 708



ISO9001, 8528, 3046, 7637, Pluses #2b, 4



NEMA ICS10, MG1, 250, ICS6, AB1



ANSI C62.41

# **POWERING AHEAD**

For over 50 years, Generac has led the industry with 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's 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 application 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 FEATURES**

#### **ENGINE SYSTEM**

#### General

- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel flexible exhaust connection
- Critical Exhaust Silencer (enclosed only)
- · Factory Filled Oil
- Radiator Duct Adapter (open set only)

#### Fuel System

- · Fuel lockoff solenoid
- Primary fuel filter

#### **Cooling System**

- Closed Coolant Recovery System
- UV/Ozone resistant hoses
- Factory-Installed Radiator
- Radiator Drain Extension
- 50/50 Ethylene glycol antifreeze
- 120 VAC Coolant Heater

#### **Engine Electrical System**

- · Battery charging alternator
- Battery cables
- Battery tray
- Solenoid activated starter motor
- Rubber-booted engine electrical connections

GENERAC

· Programmable Crank Limiter

• 7-Day Programmable Exerciser

• Digital H Control Panel - Dual 4x20 Display

· Special Applications Programmable PLC

**Control Panel** 

RS-232/485

· All-Phase Sensing DVR

Low Fuel Pressure Indication

• 2-Wire Start Compatible

· Full System Status

• Power Output (kW)

• Utility Monitoring

**CONTROL SYSTEM** 

# ALTERNATOR SYSTEM

- UL2200 GENprotect™
- 12 leads (3-phase, non 600 V)
- Class H insulation material
- Vented rotor
- 2/3 pitch
- Skewed stator
- Auxiliary voltage regulator power winding
- Amortisseur winding
- Brushless Excitation
- Sealed Bearings
- Automated manufacturing (winding, insertion, lacing, varnishing)
- Rotor dynamically spin balanced
- Full load capacity alternator
- · Protective thermal switch

# **GENERATOR SET**

- Internal Genset Vibration Isolation
- · Separation of circuits high/low voltage
- Separation of circuits multiple breakers
- Silencer Heat Shield
- · Wrapped Exhaust Piping
- Silencer housed in discharge hood (enclosed only)
- 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)
- 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
- 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
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
   Customizable Alarms, Warnings, and
- Customizable Alarms, Warnings, and Events
- Modbus protocol
- Predictive Maintenance algorithm
- Sealed Boards
- Password parameter adjustment protection

#### **ENCLOSURE (IF SELECTED)**

- Rust-proof fasteners with nylon washers to protect finish
- · High performance sound-absorbing material
- Gasketed doors
- Stamped air-intake louvers
- · Air discharge hoods for radiator-upward pointing
- · Stainless steel lift off door hinges
- · Stainless steel lockable handles
- Rhino Coat<sup>™</sup> Textured polyester powder coat

## TANKS (IF SELECTED)

- UL 142
- Double wall
- Vents
- Sloped top
- Sloped bottom
- Factory pressure tested (2 psi)
- Rupture basin alarm

Single point ground

on the display

Alarms

15 channel data logging

Pressure Shutdown)

High Temp Shutdown)

• Low Fuel Pressure Alarm

Battery Voltage Warning

during alarms & warnings

speed Shutdown)

state conditions

.

codes)

Shutdown)

0.2 msec high speed data logging

• Oil Pressure (Pre-programmable Low

Coolant Temperature (Pre-programmed

Engine Speed (Pre-programmed Over

· Alarms & warnings time and date stamped

Snap shots of key operation parameters

Alarms & warnings for transient and steady

Alarms and warnings spelled out (no alarm

SPEC SHEET

2 OF 6

Coolant Level (Pre-programmed Low Level

Alarm information automatically comes up

- Fuel level
- Check valve in supply and return lines
- Rhino Coat<sup>™</sup>- Textured polyester powder coat
  Stainless hardware

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency



# **CONFIGURABLE OPTIONS**

#### **ENGINE SYSTEM**

**General** O Oil Heater O Industrial Exhaust Silencer

#### **Fuel System**

O Flexible fuel lines O Primary fuel filter

#### **Engine Electrical System**

- O 10A UL battery charger
- O 2.5A UL battery charger
- O Battery Warmer

#### **ALTERNATOR SYSTEM**

- O Alternator Upsizing
- O Anti-Condensation Heater
- O Tropical coating
- O Permanent Magnet Excitation

# **ENGINEERED OPTIONS**

#### **ENGINE SYSTEM**

- O Coolant heater ball valves
- O Block Heaters
- O Fluid containment pans

#### **ALTERNATOR SYSTEM**

O 3rd Breaker Systems

#### **CONTROL SYSTEM**

O Spare inputs (x4) / outputs (x4) - H Panel OnlyO Battery Disconnect Switch

# **CIRCUIT BREAKER OPTIONS**

- O Main Line Circuit Breaker
- O 2nd Main Line Circuit Breaker
- O Shunt Trip and Auxiliary Contact
- O Electronic Trip Breaker

#### GENERATOR SET

- Gen-Link Communications Software (English Only)
- O IBC Seismic Certification
- O 8 Position Load Center
- O 2 Year Extended Warranty
- O 5 Year Warranty
- O 5 Year Extended Warranty

#### ENCLOSURE

- O Weather Protected
- O Level 1 Sound Attenuation O Level 2 Sound Attenuation
- O Steel Enclosure
- O Aluminum Enclosure
- O 150 MPH Wind Kit
- O 12 VDC Enclosure Lighting Kit
- O 120 VAC Enclosure Lighting Kit
- O AC/DC Enclosure Lighting Kit
- O Door Alarm Switch

### **GENERATOR SET**

O Special Testing

# ENCLOSURE

O Motorized DampersO Door switched for intrusion alertO Enclosure ambient heaters

#### TANKS (Size on last page)

- O Electrical Fuel Level
- O Mechanical Fuel Level
- O 8" Fill Extension
- O 13" Fill Extension

#### **CONTROL SYSTEM**

- O 21-Light Remote Annunciator
- O Remote Relay Panel (8 or 16)
- O Oil Temperature Sender with Indication Alarm
- Remote E-Stop (Break Glass-Type, Surface Mount)
- O Remote E-Stop (Red Mushroom-Type, Surface Mount)
- O 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

O Overfill Protection Valve

- O UL2085 Tank
- O ULC S-601 Tank
- O Stainless Steel Tank
- O Special Fuel Tanks (MIDEQ and FL DEP/DERM, etc.)
- O 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



# **APPLICATION AND ENGINEERING DATA**

#### **ENGINE SPECIFICATIONS**

EPA Certified Stationary Emergency

EPA Emissions ComplianceStationary EmergencyWater PumpBelt Driven CentrifugalEPA Emissions ReferenceSee Emissions Data SheetFan TypePusherCylinder #6Fan Speed (rpm)2538TypeIn-LineFan Diameter mm (in)599 (23.6)Displacement - L (cu In)6.7 (406.86)Coolant Heater Wattage1500Bore - mm (in)104 (4.09)Coolant Heater Wattage120 V /240 VStroke - mm (in)128 (5.2)Coolant Heater Standard Voltage120 V /240 VCompression Ratio16.5:1Fuel SystemFuel SystemCylinder Head Type2 ValveFuel TypeUltra Low Sulfur Diesel FuelPiston TypeAlloy AluminumFuel SpecificationsASTMCrankshaft TypeForged SteelFuel Filtering (microns)5Engine GoverningFuel InjectionStanadyneGovernorElectronic IsochronousFuel Supply Line mm (in)12.7 (0.5) NPTFrequency Regulation (Steady State)+/- 0.25%Fuel Supply Line mm (in)12.7 (0.5) NPTLubrication SystemOil Pump TypeGearEngine Electrical SystemOil Pump TypeGearFungine Electrical SystemEngine Electrical System	General		Cooling System	
EPA Emissions Reference     See Emissions Data Sheet     Fan Type     Pusher       Cylinder #     6     Fan Speed (rpm)     2538       Type     In-Line     Fan Diameter mm (in)     599 (23.6)       Displacement - L (cu In)     6.7 (406.86)     Coolant Heater Wattage     1500       Bore - mm (in)     104 (4.09)     Coolant Heater Wattage     120 V /240 V       Stroke - mm (in)     128 (5.2)     Coolant Heater Standard Voltage     120 V /240 V       Compression Ratio     16.5:1     Fuel System     Fuel System       Intake Air Method     Turbocharged/Aftercooled     Fuel System     Stroke - mm (in)       Cylinder Head Type     2 Valve     Fuel System     ASTM       Priston Type     Alloy Aluminum     Fuel Specifications     ASTM       Crankshaft Type     Forged Steel     Fuel Injection     Stanadyne       Fuel Procency Regulation (Steady State)     +/- 0.25%     Fuel Supply Line mm (in)     12.7 (0.5) NPT       Fuel Return Line mm (in)     12.7 (0.5) NPT     Fuel Return Line mm (in)     12.7 (0.5) NPT       Lubrication System     101 Pump Type     Gear     Engine Electrical System       Oil Pump Type     Full Flow     Stid     Stid       Grankcase Capacity - L (qts)     17 (18)     System Voltage     12 VDC       Battery Voltage	Make	lveco/FPT	Cooling System Type	Closed Recovery
Cylinder #6Fan Speed (rpm)2538TypeIn-LineFan Diameter mm (in)599 (23.6)Displacement - L (cu In)6.7 (406.86)Coolant Heater Wattage1500Bore - mm (in)104 (4.09)Coolant Heater Wattage120 V /240 VStroke - mm (in)128 (5.2)Coolant Heater Standard Voltage120 V /240 VCompression Ratio16.5:1Fuel SystemFuel SystemIntake Air MethodTurbocharged/AftercooledFuel TypeUltra Low Sulfur Diseal FuelCylinder Head Type2 ValveFuel SyscificationsASTMPiston TypeAlloy AluminumFuel SpecificationsASTMCrankshatt TypeForged SteelFuel Pittering (microns)5Engine GoverningElectronic IsochronousInjector TypeMechanicalGovernorElectronic IsochronousInjector TypeMechanicalFrequency Regulation (Steady State)+/- 0.25%Fuel Supply Line mm (in)12.7 (0.5) NPTLubrication SystemOil Pump TypeGearEngine Electrical SystemOil Pump TypeGearColant Electrical SystemSee Battery Index Off 1970SBYOil Filter TypeFull FlowSitaSee Battery Index Off 1970SBYCrankcase Capacity - L (qts)17 (18)System Voltage12 VDCBattery Voltage12 VDCSee Battery Index Off 1970SBYSee Battery Index Off 1970SBY	EPA Emissions Compliance	Stationary Emergency	Water Pump	Belt Driven Centrifugal
TypeIn-LineFan Diameter mm (in)599 (23.6)Displacement - L (cu In)6.7 (406.86)Coolant Heater Wattage1500Bore - mm (in)104 (4.09)Coolant Heater Wattage120 V /240 VStroke - mm (in)128 (5.2)Coolant Heater Standard Voltage120 V /240 VCompression Ratio16.5:1Intake Air MethodTurbocharged/AftercooledOylinder Head Type2 ValveFuel SystemPiston TypeAlloy AluminumFuel SpecificationsASTMCrankshaft TypeForged SteelFuel Fittering (microns)5Engine Governing+/- 0.25%Fuel Pump TypeEngine Driven GearOil Pump TypeGearInjector TypeMechanicalOil Pump TypeGearEngine Electrical System12.7 (0.5) NPTOil Pump TypeFull FlowSystem Voltage12.2 VDCCrankcase Capacity - L (qts)17 (18)System Voltage12.2 VDCBattery Voltage12.2 VDCStatery IndexStatery IndexBattery Voltage12.2 VDCStatery IndexStatery IndexOil Glar70SBYBattery Voltage12.2 VDCStatery IndexOil Statery Voltage12.2 VDCStatery Voltage12.2 VDCBattery Voltage12.2 VDCStatery Voltage12.2 VDCBattery Voltage12.2 VDCStatery Voltage12.2 VDCStatery Voltage12.2 VDCStatery Voltage12.2 VDCStatery Voltage12.2 VDCStatery Voltage12.2 VDCStatery Voltage12.2 VD	EPA Emissions Reference	See Emissions Data Sheet	Fan Type	Pusher
Displacement - L (cu In)6.7 (406.86)Coolant Heater Wattage1500Bore - mm (in)104 (4.09)Coolant Heater Wattage1500Stroke - mm (in)128 (5.2)Coolant Heater Wattage120 V /240 VCompression Ratio16.5:1Fuel SystemFuel SystemIntake Air MethodTurbocharged/AftercooledFuel SystemFuel SystemCyinder Head Type2 ValveFuel SpecificationsASTMPiston TypeAlloy AluminumFuel Specifications5Engine GoverningForged SteelFuel InjectionStanadyneGovernorElectronic IsochronousInjector TypeMechanicalFrequency Regulation (Steady State)+/- 0.25%Fuel Supply Line mm (in)12.7 (0.5) NPTLubrication SystemOil Pump TypeGearEngine Electrical SystemOil Pump TypeGearSystem Voltage12 VDCOil Pump TypeFull FlowSteelEngine Electrical SystemChankcase Capacity - L (qts)17 (18)System Voltage12 VDCBattery Voltage12 VDCSteelSteelBattery Voltage12 VDCSteelSteelBattery Voltage12 VDCSteelBattery Voltage12 VDC	Cylinder #	6	Fan Speed (rpm)	2538
Bore - mm (in)104 (4.09)Coolant Heater Standard Voltage120 V /240 VStroke - mm (in)128 (5.2)Coorpression Ratio16.5:1Intake Air MethodTurbocharged/AftercooledFuel SystemQuinder Head Type2 ValveFuel SystemPiston TypeAlloy AluminumFuel SpecificationsASTMCrankshaft TypeForged SteelFuel InjectionStanadyneEngine GoverningGovernorElectronic IsochronousFuel Pump TypeEngine Driven GearGovernorElectronic IsochronousInjector TypeMechanicalFrequency Regulation (Steady State)+/- 0.25%Fuel System12.7 (0.5) NPTLubrication SystemOil Pump TypeGearEngine Electrical SystemOil Pump TypeGearSystem Voltage12 VDCOil Filter TypeFull FlowSystem Voltage12 VDCCrankcase Capacity - L (qts)17 (18)See Battery Index OtB1970SBYSee Battery Index OtB1970SBYBattery Voltage12 VDC	Туре	In-Line	Fan Diameter mm (in)	599 (23.6)
Stroke - mm (in)       128 (5.2)         Compression Ratio       16.5:1         Intake Air Method       Turbocharged/Aftercooled         Cylinder Head Type       2 Valve         Piston Type       Alloy Aluminum         Crankshaft Type       Forged Steel         Engine Governing       Fuel Specifications         Governor       Electronic Isochronous         Frequency Regulation (Steady State)       +/- 0.25%         Lubrication System       Fuel Flow         Oil Pump Type       Gear         Oil Pump Type       Gear         Oil Pump Type       Full Flow         Crankcase Capacity - L (qts)       17 (18)         See Battery Index 0161970SBY       17 (18)	Displacement - L (cu In)	6.7 (406.86)	Coolant Heater Wattage	1500
Compression Ratio16.5:1Intake Air MethodTurbocharged/AftercooledCylinder Head Type2 ValvePiston TypeAlloy AluminumCrankshaft TypeForged SteelEngine GoverningForged SteelGovernorElectronic IsochronousFrequency Regulation (Steady State)+/- 0.25%Lubrication SystemOil Pump TypeOil Pump TypeGearOil Pump TypeGearOil Pump TypeFull FlowCrankcase Capacity - L (qts)17 (18)System Voltage12 VDCBattery Charging AlternatorStdBattery Size0161970SBYBattery Voltage12 VDCBattery Voltage12 VDC	Bore - mm (in)	104 (4.09)	Coolant Heater Standard Voltage	120 V /240 V
Intake Air MethodTurbocharged/AftercooledFuel SystemCylinder Head Type2 ValveFuel TypeUltra Low Sulfur Diesel FuelPiston TypeAlloy AluminumFuel SpecificationsASTMCrankshaft TypeForged SteelFuel Piltering (microns)5Engine GoverningElectronic IsochronousInjector TypeMechanicalGovernorElectronic IsochronousInjector TypeMechanicalFrequency Regulation (Steady State)+/- 0.25%Fuel Supply Line mm (in)12.7 (0.5) NPTLubrication SystemOil Pump TypeGearEngine Electrical SystemEngine Electrical SystemOil Pump TypeGearSystem Voltage12 VDCOil Filter TypeFull FlowSee Battery Index of 161970SBYBattery Voltage12 VDCBattery Voltage12 VDCSee Battery Index of 161970SBYBattery Voltage12 VDC	Stroke - mm (in)	128 (5.2)		
Market in the detail of the	Compression Ratio	16.5:1		
Piston TypeAlloy AluminumFuel TypeOtha Low Sund Dieser PderPiston TypeForged SteelFuel SpecificationsASTMEngine GoverningElectronic IsochronousFuel Pump TypeEngine Driven GearGovernorElectronic IsochronousInjector TypeMechanicalFrequency Regulation (Steady State)+/- 0.25%Fuel Supply Line mm (in)12.7 (0.5) NPTLubrication SystemGearEngine Electrical System12.7 (0.5) NPTOil Pump TypeGearEngine Electrical System12 VDCOil Pitter TypeFull FlowSystem Voltage12 VDCBattery SizeSee Battery Index O161970SBYSee Battery Index O161970SBYSee Battery Index O161970SBY	Intake Air Method	Turbocharged/Aftercooled	Fuel System	
Piston TypeAlloy AluminumFuel SpecificationsASTMCrankshaft TypeForged SteelFuel Specifications5Engine GoverningFuel Filtering (microns)5GovernorElectronic IsochronousFuel Pump TypeEngine Driven GearFrequency Regulation (Steady State)+/- 0.25%Fuel Supply Line mm (in)12.7 (0.5) NPTLubrication SystemGearEngine Electroical System12.7 (0.5) NPTOil Pump TypeGearEngine Electrical System2.7 (0.5) NPTOil Filter TypeFull FlowEngine Electrical System12 VDCCrankcase Capacity - L (qts)17 (18)System Voltage12 VDCBattery SizeSee Battery Index O161970SBYSee Battery Index O161970SBYSee Battery Index O161970SBY	Cylinder Head Type	2 Valve	Fuel Type	Ultra Low Sulfur Diesel Fuel
Engine GoverningStanadyneGovernorElectronic IsochronousInjectionStanadyneFrequency Regulation (Steady State)+/- 0.25%Injector TypeMechanicalFrequency Regulation System+/- 0.25%Fuel Supply Line mm (in)12.7 (0.5) NPTLubrication SystemGearEngine Electrical System12.7 (0.5) NPTOil Pump TypeGearSystem Voltage12 VDCOil Filter TypeFull FlowSystem Voltage12 VDCCrankcase Capacity - L (qts)17 (18)System Voltage12 VDCBattery SizeSee Battery Index O161970SBYSee Battery Index O161970SBY12 VDC	Piston Type	Alloy Aluminum		ASTM
Engine GoverningFuel Pump TypeEngine Driven GearGovernorElectronic IsochronousInjector TypeMechanicalFrequency Regulation (Steady State)+/- 0.25%Fuel Supply Line mm (in)12.7 (0.5) NPTLubrication SystemGearEngine Electrical System12.7 (0.5) NPTOil Pump TypeGearEngine Electrical System12 VDCOil Filter TypeFull FlowSystem Voltage12 VDCCrankcase Capacity - L (qts)17 (18)System Voltage12 VDCBattery SizeSee Battery Index O161970SBYSee Battery Index O161970SBYSee Battery Index O161970SBY	Crankshaft Type	Forged Steel	Fuel Filtering (microns)	5
GovernorElectronic IsochronousInjector TypeMechanicalFrequency Regulation (Steady State)+/- 0.25%Fuel Supply Line mm (in)12.7 (0.5) NPTLubrication SystemGearEngine Electrical System12.7 (0.5) NPTOil Pump TypeGearEngine Electrical System12.7 (0.5) NPTOil Filter TypeFull FlowSystem Voltage12 VDCCrankcase Capacity - L (qts)17 (18)System Voltage12 VDCBattery VoltageSee Battery Index 0161970SBYSee Battery Index 0161970SBYSee Battery Index 0161970SBY	- · · ·		Fuel Injection	Stanadyne
Frequency Regulation (Steady State)       +/- 0.25%       Fuel Supply Line mm (in)       12.7 (0.5) NPT         Lubrication System       Fuel Return Line mm (in)       12.7 (0.5) NPT         Oil Pump Type       Gear       Engine Electrical System         Oil Filter Type       Full Flow       System Voltage       12 VDC         Crankcase Capacity - L (qts)       17 (18)       System Voltage       12 VDC         Battery Size       See Battery Index Olf 1970SBY       0161970SBY         Battery Voltage       12 VDC	Engine Governing		Fuel Pump Type	Engine Driven Gear
Lubrication System       Fuel Return Line mm (in)       12.7 (0.5) NPT         Oil Pump Type       Gear       Engine Electrical System         Oil Filter Type       Full Flow       Engine Electrical System         Crankcase Capacity - L (qts)       17 (18)       System Voltage       12 VDC         Battery Charging Alternator       Std       See Battery Index 0161970SBY         Battery Voltage       12 VDC       12 VDC	Governor	Electronic Isochronous	Injector Type	Mechanical
Lubrication System       Gear       Engine Electrical System         Oil Pump Type       Full Flow       Engine Electrical System         Crankcase Capacity - L (qts)       17 (18)       System Voltage       12 VDC         Battery Charging Alternator       Std         Battery Size       See Battery Index 0161970SBY         Battery Voltage       12 VDC	Frequency Regulation (Steady State)	+/- 0.25%	Fuel Supply Line mm (in)	12.7 (0.5) NPT
Oil Pump TypeGearEngine Electrical SystemOil Filter TypeFull FlowSystem Voltage12 VDCCrankcase Capacity - L (qts)17 (18)System Voltage12 VDCBattery Charging AlternatorStdBattery SizeSee Battery Index 0161970SBYBattery Voltage12 VDC12 VDC			Fuel Return Line mm (in)	12.7 (0.5) NPT
Oil Filter Type     Full Flow       Crankcase Capacity - L (qts)     17 (18)       System Voltage     12 VDC       Battery Charging Alternator     Std       Battery Size     See Battery Index 0161970SBY       Battery Voltage     12 VDC	Lubrication System			
OIL Flow     Full Flow       Crankcase Capacity - L (qts)     17 (18)       System Voltage     12 VDC       Battery Charging Alternator     Std       Battery Size     0161970SBY       Battery Voltage     12 VDC	Oil Pump Type	Gear		
Battery Charging Alternator     Std       Battery Size     See Battery Index 0161970SBY       Battery Voltage     12 VDC	Oil Filter Type	Full Flow	Engine Electrical System	
Battery SizeSee Battery Index 0161970SBYBattery Voltage12 VDC	Crankcase Capacity - L (qts)	17 (18)	System Voltage	12 VDC
Battery Voltage 0161970SBY Battery Voltage 12 VDC			Battery Charging Alternator	Std
7 5			Battery Size	
Ground Polarity Negative			Battery Voltage	12 VDC
			Ground Polarity	Negative

# ALTERNATOR SPECIFICATIONS

Standard Model	390	
Poles	4	
Field Type	Revolving	
Insulation Class - Rotor	Н	
Insulation Class - Stator	Н	
Total Harmonic Distortion	<3%	
Telephone Interference Factor (TIF)	<50	

Standard Excitation	Synchronous Brushless
Bearings	Single Seated Cartridge
Coupling	Direct, Flexible Disc
Load Capacity - Standby	100%
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%



EPA Certified Stationary Emergency

# **OPERATING DATA**

#### **POWER RATINGS**

	S	tandby
Single-Phase 120/240 VAC @1.0pf	100 kW	Amps: 417
Three-Phase 120/208 VAC @0.8pf	100 kW	Amps: 347
Three-Phase 120/240 VAC @0.8pf	100 kW	Amps: 301
Three-Phase 277/480 VAC @0.8pf	100 kW	Amps: 150
Three-Phase 346/600 VAC @0.8pf	100 kW	Amps: 120

## **STARTING CAPABILITIES (sKVA)**

		sKVA vs. Voltage Dip											
		480 VAC					208/24	40 VAC					
<u>Alternator</u>	<u>kW</u>	10%	15%	20%	25%	30%	35%	10%	15%	20%	25%	30%	35%
Standard	100	79	118	157	197	236	200	59	89	118	148	177	206
Upsize 1	130	116	174	323	290	348	406	87	131	174	218	261	305
Upsize 2	150	133	199	265	332	398	464	100	149	199	249	299	348
Upsize 3	200	187	280	373	467	560	653	140	210	280	350	420	490

# **FUEL CONSUMPTION RATES\***

Fuel Pump Lift - ft (m)	Percent Load	Standby
3 (1)	25%	2.2 (8.3)
-	50%	4.2 (15.9)
– Total Fuel Pump Flow (Combustion + Return)	75%	5.9 (22.3)
29.1 gal/hr	100%	7.3 (27.6)

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

Diesel - gal/hr (l/hr)

## COOLING

		Standby	
Coolant Flow per Minute	gal/min (l/min)	44.6 (168.8)	
Coolant System Capacity	gal (L)	5.65 (21.4)	
Heat Rejection to Coolant	BTU/hr	269,130	
Inlet Air	cfm (m³/hr)	6360 (180)	
Max. Operating Radiator Air Temp	F <sup>o</sup> (C <sup>o</sup> )	122 (50)	
Max. Ambient Temperature (before derate)	F° (C°)	110 (43.3)	
Maximum Radiator Backpressure	in H <sub>2</sub> 0	0.5	

#### **COMBUSTION AIR REQUIREMENTS**

Flow at Rated Power cfm (m<sup>3</sup>/min)

Standby

325 (9.2)

ENGINE			EXHAUST		
		Standby			Standby
Rated Engine Speed	rpm	1800	Exhaust Flow (Rated Output)	cfm (m <sup>3</sup> /min)	1022 (28.94)
Horsepower at Rated kW**	hp	152	Max. Backpressure (Post Silencer)	inHg (Kpa)	1.5 (5.1)
Piston Speed	ft/min (m/min)	1559 (475)	Exhaust Temp (Rated Output)	°F (°C)	885 (474)
BMEP	psi	165	Exhaust Outlet Size (Open Set)	mm (in)	101.6 (4)

\*\* Pefer 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.

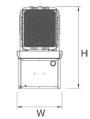
INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

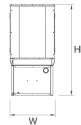


# **DIMENSIONS AND WEIGHTS\***

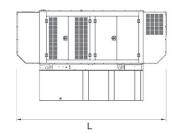


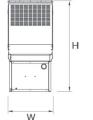






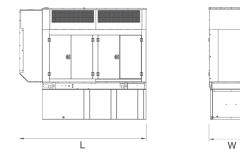






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YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER



OPEN SE	т		
RUN TIME HOURS	USABLE CAPACITY GAL (L)	L x W x H in (mm)	WT lbs (kg) - Tank & Open Set
NO TANK	-	110 (2794) x 40 (1016) x 65 (1651)	3104 (1408)
12	90 (340.7)	110 (2794) x 40 (1016) x 77 (1955.8)	3813 (1730)
30	220 (832.8)	110 (2794) x 40 (1016) x 89 (2260.6)	4146 (1881)
48	350 (1324.9)	110 (2794) x 40 (1016) x 101 (2565.4)	4488 (2036)
70	510 (1930.6)	110 (2794) x 40 (1016) x 105 (2667)	4469 (2029)
81	589 (2229.6)	128 (3251.2) x 49 (1244.6) x 107 (2717.8)	4948 (2244)
95	693 (2623.3)	136 (3454.4) x 53 (1346.2) x 107 (2717.8)	4667 (2117)

## STANDARD ENCLOSURE

RUN TIME	USABLE CAPACITY	CITY L x W x H in (mm)		Enclosure Only
HOURS	GAL (L)			Aluminum
NO TANK	-	133 (3378) x 40 (1016) x 64 (1625.6)		
12	90 (340.7)	133 (3378) x 40 (1016) x 77 (1956)		
30	220 (832.8)	133 (3378) x 40 (1016) x 89 (2261)		
48	350 (1324.9)	133 (3378) x 40 (1016) x 101 (2565)	500 (227)	165 (75)
70	510 (1930.6)	133 (3378) x 47 (1194) x 105 (2667)		
81	589 (2229.6)	133 (3378) x 49 (1125) x 107 (2718)		
95	693 (2623.3)	133 (3378) x 53 (1346) x 107 (2718)		

### LEVEL 1 ACOUSTIC ENCLOSURE

RUN TIME	USABLE CAPACITY	LyWy Hin (mm)	WT lbs (kg) - Enclosure Only	
HOURS	GAL (L)	L x W x H in (mm)	Steel	Aluminum
NO TANK	-	154 (3912) x 40 (1016) x 64 (1626)		
12	90 (340.7)	154 (3912) x 40 (1016) x 77 (1956)		
30	220 (832.8)	154 (3912) x 40 (1016) x 89 (2261)		
48	350 (1324.9)	154 (3912) x 40 (1016) x 101 (2565)	750 (340)	250 (112)
70	510 (1930.6)	154 (3912) x 47 (1194) x 105 (2667)		
81	589 (2229.6)	154 (3912) x 49 (1245) x 107 (2718)		
95	693 (2623.3)	154 (3912) x 53 (1346) x 107 (2718)		

# LEVEL 2 ACOUSTIC ENCLOSURE

RUN TIME	USABLE CAPACITY	WT Ibs (kg) - Enclosu		Enclosure Only
HOURS	GAL (L)	L x W x H in (mm)	Steel	Aluminum
NO TANK	-	145 (3683) x 40 (1016) x 81 (2057)		
12	90 (340.7)	145 (3683) x 40 (1016) x 84 (2134)		
30	220 (832.8)	145 (3683) x 40 (1016) x 106 (2692)		
48	350 (1324.9)	145 (3683) x 40 (1016) x 118 (2997)	1000 (454)	330 (150)
70	510 (1930.6)	145 (3683) x 47 (1194) x 122 (3099)		
81	589 (2229.6)	145 (3683) x 49 (1245) x 124 (3150)	_	
95	693 (2623.3)	145 (3683) x 53 (1346) x 124 (3150)		

\*All measurements are approximate and for estimation purposes only. Sound dBA can be found on the sound data sheet. Enclosure Only weight is added to Tank & Open Set weight to determine total weight.

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.