



GENERAC® STANDBY GENERATORS

130 kW

Liquid-Cooled Engine Generator Sets

Standby Power Rating

Model QT130 (Bisque) - 130 kW 60Hz

INCLUDES:

- Generac Naturally Aspirated Gaseous Fueled 6.8L Engine
- Two Line LCD Tri-lingual Digital Nexus™ Controller
- Isochronous Electronic Governor
- Closed Coolant Recovery System
- Smart Battery Charger
- UV/Ozone Resistant Hoses
- ±1% Voltage Regulation
- Natural Gas or LP Operation
- 2 Year Limited Warranty
- UL 2200 Listed



QUIET-TEST™

Meets 2010 EPA Emission Regulations

Meets CA/MA emissions requirement with optional catalyst

FEATURES

- **INNOVATIVE DESIGN & PROTOTYPE TESTING** are key components of GENERAC'S success in "IMPROVING POWER BY DESIGN." But it doesn't stop there. Total commitment to component testing, reliability testing, environmental testing, destruction and life testing, plus testing to applicable CSA, NEMA, EGSA, and other standards, allows you to choose GENERAC POWER SYSTEMS with the confidence that these systems will provide superior performance.
- **TEST CRITERIA:**
 - ✓ **PROTOTYPE TESTED**
 - ✓ **SYSTEM TORSIONAL TESTED**
 - ✓ **NEMA MG1-22 EVALUATION**
 - ✓ **MOTOR STARTING ABILITY**
- **SOLID-STATE, FREQUENCY COMPENSATED VOLTAGE REGULATION.** This state-of-the-art power maximizing regulation system is standard on all Generac models. It provides optimized FAST RESPONSE to changing load conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine. An unequalled ±1% voltage regulation.
- **SINGLE SOURCE SERVICE RESPONSE** from Generac's extensive dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component.
- **GENERAC TRANSFER SWITCHES.** Long life and reliability are synonymous with GENERAC POWER SYSTEMS. One reason for this confidence is that the GENERAC product line includes its own transfer systems and controls for total system compatibility.

GENERAC®

GENERATOR SPECIFICATIONS

| | |
|---|-------------------------------|
| TYPE | Synchronous |
| ROTOR INSULATION | Class F or H (see Data Label) |
| STATOR INSULATION | Class H |
| TELEPHONE INTERFERENCE FACTOR (TIF) | < 50 |
| ALTERNATOR OUTPUT LEADS 3-PHASE/1-PHASE | 6/4 wire |
| BEARINGS | Sealed Ball |
| COUPLING | Gear Drive |
| LOAD CAPACITY (STANDBY RATING) | 130 kW |
| EXCITATION SYSTEM | Brushless |

VOLTAGE REGULATION

| | |
|------------|--------------|
| TYPE | Full Digital |
| SENSING | Three Phase |
| REGULATION | ± 1% |

GENERATOR FEATURES

| |
|--|
| <p>Revolving field heavy duty generator Directly connected to the engine Operating temperature rise 120 °C above a 40 °C ambient Insulation is Class F rated at 130 °C rise All models are fully prototyped tested</p> |
|--|

ENCLOSURE FEATURES

| | |
|---|--|
| Aluminum all weather protective enclosure options available | Ensures protection against mother nature. Electrostatically applied textured epoxy paint for added durability. |
| Enclosed critical grade muffler | Quiet, critical grade muffler is mounted inside the unit to prevent injuries. |
| Small, compact, attractive | Makes for an easy, eye appealing installation. |
| SAE | Sound attenuated enclosure ensures quiet operation. |

ENGINE SPECIFICATIONS

| | |
|-------------------|---------------------|
| MAKE | Generac |
| MODEL | V-type |
| CYLINDERS | 10 |
| DISPLACEMENT | 6.8 Liter |
| BORE | 3.55 |
| STROKE | 4.17 |
| COMPRESSION RATIO | 9:1 |
| INTAKE AIR SYSTEM | Naturally Aspirated |
| VALVE SEATS | Hardened |
| LIFTER TYPE | Hydraulic |

GOVERNOR SPECIFICATIONS

| | |
|-------------------------|-------------|
| TYPE | Electronic |
| FREQUENCY REGULATION | Isochronous |
| STEADY STATE REGULATION | ± 0.25% |

ENGINE LUBRICATION SYSTEM

| | |
|--------------------|-----------------------------|
| OIL PUMP | Gear |
| OIL FILTER | Full flow spin-on cartridge |
| CRANKCASE CAPACITY | 5 Quarts |

ENGINE COOLING SYSTEM

| | |
|--------------|-------------|
| TYPE | Closed |
| WATER PUMP | Belt driven |
| FAN SPEED | 1950 |
| FAN DIAMETER | 26 inches |
| FAN MODE | Puller |

FUEL SYSTEM

| | |
|--------------------------|----------------------------|
| FUEL TYPE | Natural gas, propane vapor |
| CARBURETOR | Down Draft |
| SECONDARY FUEL REGULATOR | Standard |
| FUEL SHUT OFF SOLENOID | Standard |
| OPERATING FUEL PRESSURE | 11" - 14" H ₂ O |

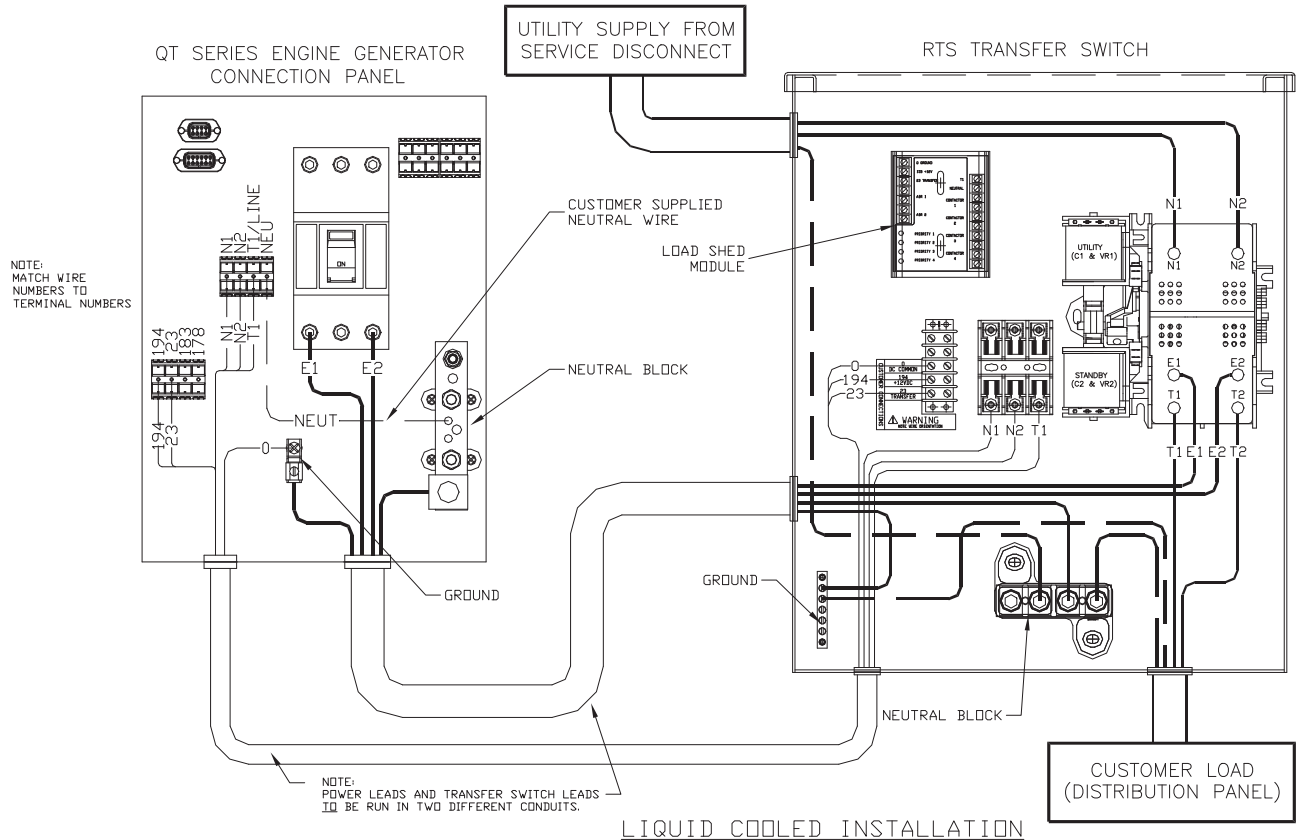
ELECTRICAL SYSTEM

| | |
|---------------------------|------------------------|
| BATTERY CHARGE ALTERNATOR | 12V 30 Amp |
| SMART BATTERY CHARGER | 12V, 2 Amp |
| RECOMMENDED BATTERY | Group 24F, 12V, 525CCA |
| SYSTEM VOLTAGE | 12 Volts |

| OPERATING DATA | | | | | |
|--|-----------------------------------|------------|----------------|------------------------|----------------|
| KW RATING (LP/NG) | 130 | | | | |
| ENGINE SIZE | 6.8 Liter V-10 | | | | |
| GENERATOR OUTPUT VOLTAGE/KW - 60Hz | LP | AMP | NG | AMP | CB Size |
| 120/240V, 1-phase, 1.0 pf | 130 | 542 | 117 | 488 | 600 |
| 120/208V, 3-phase, 0.8 pf | 130 | 451 | 122 | 423 | 500 |
| 120/240V, 3-phase, 0.8 pf | 130 | 391 | 122 | 367 | 450 |
| 277/480V, 3-phase, 0.8 pf | 130 | 195 | 122 | 183 | 225 |
| GENERATOR LOCKED ROTOR KVA AVAILABLE @ VOLTAGE DIP OF 35% | | | | | |
| Single phase or 208-240 3-phase | 270 | | | | |
| 480V 3-phase | 320 | | | | |
| ENGINE FUEL CONSUMPTION (Natural Gas) (Propane) | Natural Gas | | Propane | | |
| | (ft ³ /hr.) | | (gal/hr.) | (ft ³ /hr.) | |
| Exercise cycle | 135 | | 1.4 | 54.5 | |
| 25% of rated load | 482 | | 5.3 | 193 | |
| 50% of rated load | 927 | | 10.3 | 373 | |
| 75% of rated load | 1292 | | 14.3 | 520 | |
| 100% of rated load | 1786 | | 19.8 | 719 | |
| For Btu content, multiply ft ³ /hr x 2520 (LP) or ft ³ /hr x 1000 (NG) | | | | | |
| ENGINE COOLING | | | | | |
| Air flow (inlet air including alternator and combustion air) | ft ³ /min. | 6,450 | | | |
| System coolant capacity | US gal. | 4.5 | | | |
| Heat rejection to coolant | BTU/hr. | 496,000 | | | |
| Max. operating air temp. on radiator | °C (°F) | 60 (150) | | | |
| Max. ambient temperature | °C (°F) | 50 (140) | | | |
| COMBUSTION AIR REQUIREMENTS | | | | | |
| Flow at rated power 60 Hz | cfm | 336 | | | |
| SOUND EMISSIONS IN DBA | | | | | |
| Exercising at 7 meters | 65 | | | | |
| Normal operation at 7 meters | 75 | | | | |
| EXHAUST | | | | | |
| Exhaust flow at rated output 60 Hz | cfm | 1,119 | | | |
| Exhaust temp. at muffler outlet | °C (°F) | 521 (970) | | | |
| ENGINE PARAMETERS | | | | | |
| Rated synchronous RPM | 60 Hz | 2970 | | | |
| POWER ADJUSTMENT FOR AMBIENT CONDITIONS | | | | | |
| Temperature Deration | 3% for every 10 °C above - °C | | | 25 | |
| | 1.65% for every 10 °F above - °F | | | 77 | |
| Altitude Deration | 1% for every 100 m above - m | | | 183 | |
| | 3% for every 1000 ft. above - ft. | | | 600 | |

RATING: All three phases units are rated at 0.8 power factor. All single phase units are rated at 1.0 power factor. STANDBY RATING: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046-1. Design and specifications are subject to change without notice.

kW rating is based on LPG Fuel and may derate with natural gas.



CIRCUIT BREAKER WIRE AND CONDUIT SIZE

| KW | VOLTS | CB AMPS | LUG SIZE |
|-----|---------|---------|-----------------------------------|
| 130 | 240 1 Ø | 600 | (3) 2/0 to 400 mcm |
| 130 | 240 3 Ø | 450 | (3) 2/0 to 400 mcm |
| 130 | 208 3 Ø | 500 | (3) 2/0 to 400 mcm |
| 130 | 480 3 Ø | 225 | (1) 600 mcm or (2) 1/0 to 250 mcm |

NEXUS™ CONTROL FEATURES

| | |
|---|--|
| 2-Line Plain Text LCD Display | Simple user interface for ease of operation |
| Mode Switch | Automatic Start on Utility failure. 7 day exerciser |
| -Auto | |
| -Off | Stops unit. Power is removed. Control and charger still operate. |
| -Manual/Test (start) | Start with starter control, unit stays on. If utility fails, transfer to load takes place. |
| Programmable start delay between 10-30 seconds | Standard |
| Engine Start Sequence | Cyclic cranking: 16 sec. on, 7 rest (90 sec. maximum duration) |
| Engine Warm-up | 5 seconds |
| Engine Cool-Down | 1 minute |
| Starter Lock-out | Starter cannot re-engage until 5 sec. after engine has stopped. |
| Smart Battery Charger | Standard |
| Automatic Voltage Regulation with Over and Under Voltage Protection | Standard |
| Automatic Low Oil Pressure Shutdown | Standard |
| Overspeed Shutdown | Standard, 72Hz |
| High Temperature Shutdown | Standard |
| Overcrank Protection | Standard |
| Safety Fused | Standard |
| Failure to Transfer Protection | Standard |
| Low Battery Protection | Standard |
| 50 Event Run Log | Standard |
| Future Set Capable Exerciser | Standard |
| Incorrect Wiring Protection | Standard |
| Internal Fault Protection | Standard |
| Common External Fault Capability | Standard |
| Governor Failure Protection | Standard |

*Single and three phase connections may vary , refer to the owner's manual for specific connection information.

