

Standby Generators

Standby Generators Liquid-Cooled Gas Engine

INCLUDES:

- Two Line LCD Tri-Lingual Digital Nexus™ Controller
- Isochronous Electronic Governor
- Sound Attenuated Enclosure
- 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

Standby Power Rating

- Model QT070 (Aluminum - Bisque) - 70 kW 60 Hz
- Model QT080 (Aluminum - Bisque) - 80 kW 60 Hz
- Model QT100 (Aluminum - Bisque) - 100 kW 60 Hz
- Model QT130 (Aluminum - Bisque) - 130 kW 60 Hz
- Model QT150 (Aluminum - Bisque) - 150 kW 60 Hz



Meets EPA Emission Regulations
70, 100, 130 & 150 kW meet CA/MA emissions requirement with optional catalyst
80 kW not for sale in CA/MA

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. Digital voltage regulation at ±1%.
- **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.

70 • 80 • 100 • 130 • 150 kW

application & engineering data

GENERATOR SPECIFICATIONS

| | |
|-------------------------------------|---|
| Type | Synchronous |
| Rotor Insulation Class | H |
| Stator Insulation Class | H |
| Telephone Interference Factor (TIF) | <50 |
| Alternator Output Leads 1-Phase | 4 wire |
| Alternator Output Leads 3-Phase | 6 wire (70, 80 & 150 kW) or 12 wire (100 & 130 kW) |
| Bearings | Sealed Ball |
| Coupling | Flexible Disc (70, 80 & 150 kW) or Gear Drive (100 & 130 kW) |
| Excitation System | Brushless |

VOLTAGE REGULATION

| | |
|------------|--------------|
| Type | Electronic |
| Sensing | Single Phase |
| Regulation | ± 1% |

GOVERNOR SPECIFICATIONS

| | |
|-------------------------|-------------|
| Type | Electronic |
| Frequency Regulation | Isochronous |
| Steady State Regulation | ± 0.25% |

ELECTRICAL SYSTEM

| | |
|---------------------------|--|
| Battery Charge Alternator | 12 Volt 30 Amp |
| Static Battery Charger | 2 Amp |
| Recommended Battery | Group 24F, 525 CCA (70, 80 & 150 kW) or Group 27F, 700 CCA (100 & 130 kW) |
| System Voltage | 12 Volts |

GENERATOR FEATURES

Revolving field heavy duty generator
Directly connected to the engine
Operating temperature rise 120 °C above a 40 °C ambient
Class H insulation is rated at 150 °C rise at 25 °C ambient
All models fully prototyped tested

ENCLOSURE FEATURES

| | |
|---------------------------------------|--|
| Aluminum weather protective enclosure | 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: 80 kW

| | |
|-----------------------|---------------------|
| Make | Generac |
| Model | V-Type |
| Cylinders | 8 |
| Displacement (Liters) | 4.6 |
| Bore (in/mm) | 3.55/90.2 |
| Stroke (in/mm) | 3.54/89.9 |
| Compression Ratio | 9.4:1 |
| Intake Air System | Naturally Aspirated |
| Lifter Type | Hydraulic |

ENGINE SPECIFICATIONS: 70, 100, 130 & 150 kW

| | |
|-----------------------|---------------------|
| Make | Generac |
| Model | V-Type |
| Cylinders | 10 |
| Displacement (Liters) | 6.8 |
| Bore (in/mm) | 3.55/90.2 |
| Stroke (in/mm) | 4.17/105.9 |
| Compression Ratio | 9:1 |
| Intake Air System | Naturally Aspirated |
| Lifter Type | Hydraulic |

ENGINE LUBRICATION SYSTEM

| | |
|---------------------------|---|
| Oil Pump Type | Gear |
| Oil Filter Type | Full flow spin-on cartridge |
| Crankcase Capacity (qt/l) | 5/4.7 (70, 100, 130 & 150 kW) or 6/5.7 (80 kW) |

ENGINE COOLING SYSTEM

| | |
|----------------------|---|
| Type | Closed |
| Water Pump | Belt driven |
| Fan Speed (rpm) | 2300 - 70 kW 1600 - 80 kW 1670 - 100 kW 1950 - 130 kW 2200 - 150 kW |
| Fan Diameter (in/mm) | 22/558.8 (70 kW) or 26/660.4 (80, 100, 130 & 150 kW) |
| Fan Mode | Pusher (70 kW) or Puller (80, 100, 130 & 150 kW) |

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" water column/21-26 mm HG |

70 • 80 • 100 • 130 • 150 kW

operating data

GENERATOR OUTPUT VOLTAGE/kW - 60 Hz

| | | kW LPG | Amp LPG | kW Nat. Gas | Amp Nat. Gas | CB Size (Both) |
|-------|-----------------------|--------|---------|-------------|--------------|----------------|
| QT070 | 120/240 V, 1Ø, 1.0 pf | 67 | 292 | 64 | 267 | 300 |
| | 120/208 V, 3Ø, 0.8 pf | 70 | 243 | 67 | 232 | 300 |
| | 120/240 V, 3Ø, 0.8 pf | 70 | 211 | 67 | 201 | 250 |
| | 277/480 V, 3Ø, 0.8 pf | 70 | 105 | 67 | 101 | 125 |
| QT080 | 120/240 V, 1Ø, 1.0 pf | 77 | 333 | 77 | 333 | 400 |
| | 120/208 V, 3Ø, 0.8 pf | 80 | 278 | 80 | 278 | 300 |
| | 120/240 V, 3Ø, 0.8 pf | 80 | 241 | 80 | 240 | 300 |
| | 277/480 V, 3Ø, 0.8 pf | 80 | 120 | 80 | 120 | 150 |
| QT100 | 120/240 V, 1Ø, 1.0 pf | 100 | 417 | 89 | 371 | 500 |
| | 120/208 V, 3Ø, 0.8 pf | 100 | 347 | 94 | 326 | 400 |
| | 120/240 V, 3Ø, 0.8 pf | 100 | 301 | 94 | 283 | 350 |
| | 277/480 V, 3Ø, 0.8 pf | 100 | 150 | 94 | 141 | 175 |
| QT130 | 120/240 V, 1Ø, 1.0 pf | 130 | 542 | 117 | 488 | 600 |
| | 120/208 V, 3Ø, 0.8 pf | 130 | 451 | 122 | 423 | 500 |
| | 120/240 V, 3Ø, 0.8 pf | 130 | 391 | 122 | 367 | 450 |
| | 277/480 V, 3Ø, 0.8 pf | 130 | 195 | 122 | 183 | 225 |
| QT150 | 120/240 V, 1Ø, 1.0 pf | 144 | 625 | 136 | 567 | 700 |
| | 120/208 V, 3Ø, 0.8 pf | 150 | 520 | 142 | 493 | 600 |
| | 120/240 V, 3Ø, 0.8 pf | 150 | 451 | 142 | 427 | 500 |
| | 277/480 V, 3Ø, 0.8 pf | 150 | 225 | 142 | 214 | 250 |

SURGE CAPACITY IN AMPS

| | | Voltage Dip @ < .4 pf | |
|-------|---------------|-----------------------|------|
| | | 15% | 30% |
| | | | |
| QT070 | 120/240 V, 1Ø | 129 | 356 |
| | 120/208 V, 3Ø | 194 | 471 |
| | 120/240 V, 3Ø | 168 | 408 |
| | 277/480 V, 3Ø | 83 | 201 |
| QT080 | 120/240 V, 1Ø | 174 | 435 |
| | 120/208 V, 3Ø | 186 | 466 |
| | 120/240 V, 3Ø | 161 | 404 |
| | 277/480 V, 3Ø | 70 | 175 |
| QT100 | 120/240 V, 1Ø | 150 | 413 |
| | 120/208 V, 3Ø | 186 | 452 |
| | 120/240 V, 3Ø | 161 | 392 |
| | 277/480 V, 3Ø | 107 | 261 |
| QT130 | 120/240 V, 1Ø | 236 | 648 |
| | 120/208 V, 3Ø | 364 | 885 |
| | 120/240 V, 3Ø | 315 | 767 |
| | 277/480 V, 3Ø | 161 | 390 |
| QT150 | 120/240 V, 1Ø | 486 | 1214 |
| | 120/208 V, 3Ø | 534 | 1334 |
| | 120/240 V, 3Ø | 463 | 1156 |
| | 277/480 V, 3Ø | 250 | 624 |

ENGINE FUEL CONSUMPTION

| | | Natural Gas | | Propane | |
|-------|--------------------|-------------|---------|----------|--------|
| | | (ft³/hr) | (m³/hr) | (gal/hr) | (l/hr) |
| | | | | | |
| QT070 | Exercise cycle | 110 | 3.1 | 1.2 | 4.6 |
| | 25% of rated load | 260 | 7.4 | 2.85 | 10.8 |
| | 50% of rated load | 500 | 14.2 | 5.46 | 20.8 |
| | 75% of rated load | 696 | 19.8 | 7.62 | 29.1 |
| | 100% of rated load | 1020 | 29 | 11.17 | 42.6 |
| QT080 | Exercise cycle | 131 | 3.7 | 1.45 | 5.5 |
| | 25% of rated load | 312 | 8.9 | 3.45 | 13.1 |
| | 50% of rated load | 600 | 17.1 | 6.64 | 25 |
| | 75% of rated load | 835 | 23.7 | 9.25 | 34.9 |
| QT100 | Exercise cycle | 130 | 3.7 | 1.4 | 5.4 |
| | 25% of rated load | 371 | 10.5 | 4.1 | 15.5 |
| | 50% of rated load | 713 | 20.3 | 7.9 | 29.8 |
| | 75% of rated load | 991 | 28.2 | 11 | 41.5 |
| QT130 | Exercise cycle | 135 | 3.8 | 1.4 | 5.7 |
| | 25% of rated load | 482 | 13.7 | 5.3 | 20 |
| | 50% of rated load | 927 | 26.3 | 10.3 | 38.7 |
| | 75% of rated load | 1292 | 36.7 | 14.3 | 54 |
| QT150 | Exercise cycle | 155 | 4.4 | 1.7 | 6.5 |
| | 25% of rated load | 556 | 15.8 | 6.09 | 23.2 |
| | 50% of rated load | 1070 | 30.4 | 11.72 | 44.7 |
| | 75% of rated load | 1491 | 42.4 | 16.33 | 62.3 |
| | 100% of rated load | 2061 | 58.6 | 22.57 | 86.1 |

Note: **Fuel pipe must be sized for full load.**

For Btu content, multiply gal/hr x 90950 (LP) or ft³/hr x 1000 (NG).

For megajoule content, multiply l/hr x 25.35 (LP) or m³/hr x 37.26 (NG).

Refer to "Emissions Data Sheets" for maximum fuel flow for EPA and SCAQMD permitting purposes.

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.

70 • 80 • 100 • 130 • 150 kW

operating data

ENGINE COOLING

| | 70 kW | 80 kW | 100 kW | 130 kW | 150 kW |
|--|---------------|---------------|---------------|---------------|---------------|
| Air flow (inlet air including alternator and combustion air in ft ³ /min) | 5200/147.2 | 5300/150.1 | 5500/155.7 | 6450/182.6 | 7800/220.9 |
| System coolant capacity (gal/liters) | 4.5/17 | 4/15.1 | 4.5/17 | 4.5/17 | 4.5/17 |
| Heat rejection to coolant (BTU/hr) | 287,000/302.8 | 316,000/333.4 | 342,000/360.8 | 496,000/523.3 | 568,000/599.3 |
| Maximum operation air temperature on radiator (°C/°F) | 60/150 | | | | |
| Maximum ambient temperature (°C/°F) | 50/140 | | | | |

COMBUSTION REQUIREMENTS

| | | | | | |
|-------------------------------|---------|---------|---------|---------|----------|
| Flow at rated power (cfm/cmm) | 205/5.8 | 250/7.1 | 262/7.4 | 336/9.5 | 410/11.6 |
|-------------------------------|---------|---------|---------|---------|----------|

SOUND EMISSIONS

| | | | | | |
|---|----|----|----|----|----|
| Sound output in dB(A) at 23 ft (7 m) with generator in exercise mode* | 67 | 64 | 61 | 65 | 66 |
| Sound output in dB(A) at 23 ft (7 m) with generator operating at normal load* | 72 | 74 | 72 | 75 | 79 |

*Sound levels are taken from the front of the generator. Sound levels taken from other sides of the generator may be higher depending on installation parameters.

EXHAUST

| | | | | | |
|---|----------|----------|----------|-----------|-----------|
| Exhaust flow at rated output (cfm/cmm) | 557/15.8 | 720/20.4 | 888/25.1 | 1119/31.7 | 1535/43.5 |
| Exhaust temperature at muffler outlet (°C/°F) | 477/890 | 449/840 | 516/960 | 521/970 | 593/1100 |

ENGINE PARAMETERS

| | | | | | |
|-----------------------|------|------|------|------|------|
| Rated Synchronous rpm | 1800 | 3600 | 2300 | 2970 | 3600 |
|-----------------------|------|------|------|------|------|

POWER ADJUSTMENT FOR AMBIENT CONDITIONS

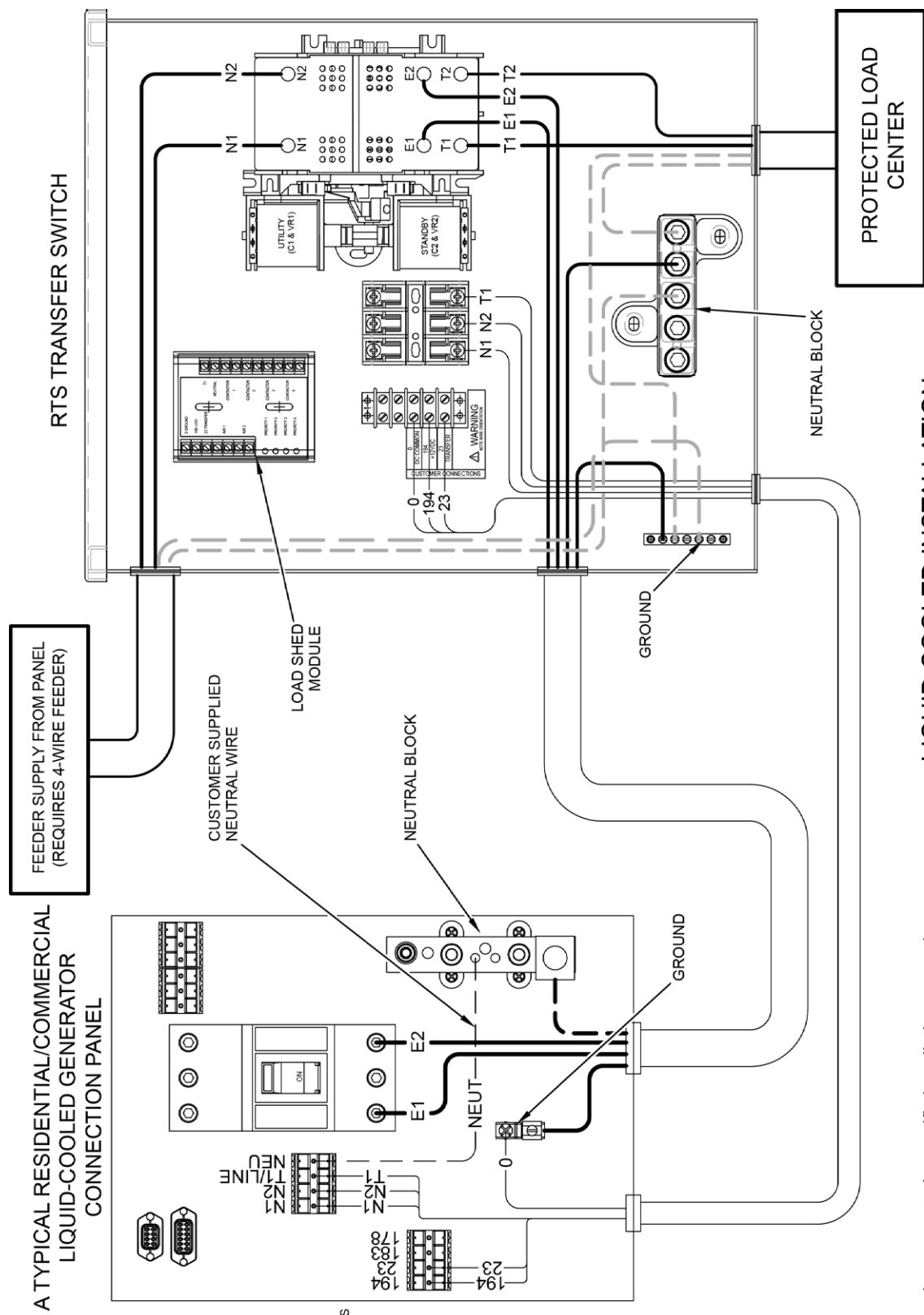
| | |
|--|--|
| Temperature Deration | 3% for every 10 °C above 25 °C or 1.65% for every 10 °F above 77 °F |
| Altitude Deration (70,100,130 & 150) | 1% for every 100 m above 183 m or 3% for every 1000 ft above 600 ft |
| Altitude Deration (80 kW) | 1% for every 100 m above 915 m or 3% for every 1000 ft above 3000 ft |

CONTROLLER FEATURES

| | |
|---|--|
| 2-Line Plain Text LCD Display | Simple user interface for ease of operation. |
| Mode Switch: Auto | Automatic Start on Utility failure. 7 day exerciser |
| Off | Stops unit. Power is removed. Control and charger still operate. |
| Manual | 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 sec |
| Engine Cool-Down | 1 min |
| 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, 72 Hz |
| 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 |

| Model # | Product | Description |
|--|-----------------------------------|--|
| 005632-0 - 70, 80 & 150 kW 005633-0 - 100 & 130 kW | Cold Weather Kit | If the temperature regularly falls below 32 °F (0 °C), install a cold weather kit to maintain optimal battery temperature. Kit consists of battery warmer with thermostat built into the wrap. |
| 005620-0 - 70, 100 & 130 kW 005619-0 - 80 kW 005667-0 - 150 kW | Extreme Cold Weather Kit | Recommended where the temperature regularly falls below 32 °F (0 °C) for extended periods of time. For liquid cooled units only. |
| 005651-0 | Base Plug Kit | Add base plugs to the base of the generator to keep out debris. |
| 005703-0 | Paint Kit | If the generator enclosure is scratched or damaged, it is important to touch-up the paint to protect from future corrosion. The paint kit includes the necessary paint to properly maintain or touch-up a generator enclosure. |
| 005660-0 - 70, 100, 130 & 150 kW 005985-0 - 80 kW | Scheduled Maintenance Kit | The Liquid-Cooled Scheduled Maintenance Kits offer all the hardware necessary to perform complete maintenance on Generac liquid-cooled generators. |
| 005928-0 | Wireless Remote | Completely wireless and battery powered, Generac's wireless remote monitor provides you with instant status information without ever leaving the house. |
| 005951-0 | Advanced Wireless Remote | Remotely control generator functions with the advanced model's LCD display. In addition to remote testing of the generator, set the exercise cycle and maintenance interval reminders. |
| 006199-0 | PMM Starter Kit | The PMM Starter Kit consists of a 24 VAC, field installed transformer that enables the use of the 24 VAC Power Management Modules (PMMs) and one PMM. The standard controller (without starter kit) can control two HVAC loads with no additional hardware. Not compatible with pre-wired switches. |
| 006186-0 | Power Management Module (50 Amps) | Power Management Modules are used in conjunction with the Smart Switch to increase its power management capabilities. It gives the Smart Switch additional power management flexibility not found in any other transfer switch. Not compatible with pre-wired switches. Note: PMM Starter Kit required. |
| 006463-1 | Mobile Link™ | Generac's Mobile Link allows you to check the status of your generator from anywhere that you have access to an Internet connection from a PC or with any smart device. You will even be notified when a change in the generator's status occurs via e-mail or text message. Note: Harness Adapter Kit required. |
| 006478-0 | Harness Adapter Kit | The Harness Adapter Kit is required to make liquid-cooled units compatible with Mobile Link™. |

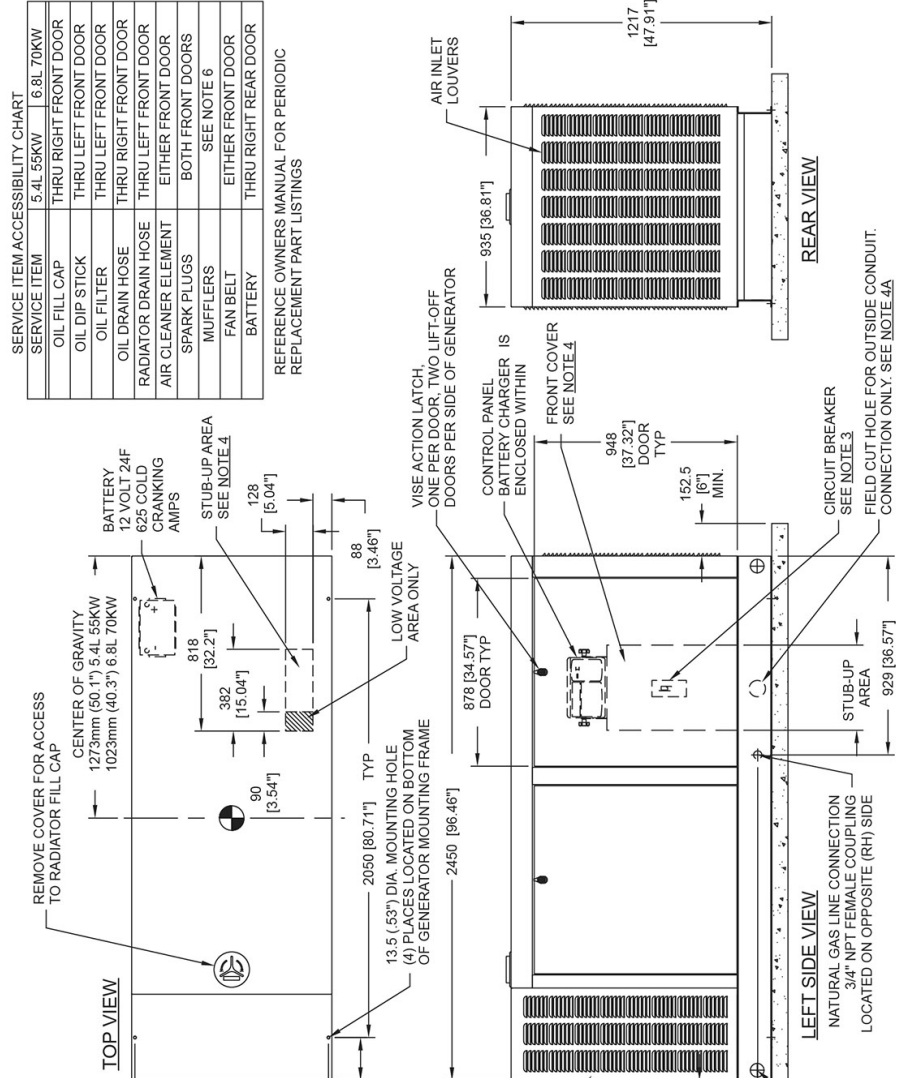
70 • 80 • 100 • 130 • 150 kW



NOTE:
MATCH WIRE
NUMBERS TO
TERMINAL NUMBERS

LIQUID COOLED INSTALLATION

Note: Use the generator's specific installation manual and wiring diagrams to verify generator wiring connections, as they may differ slightly from illustration.



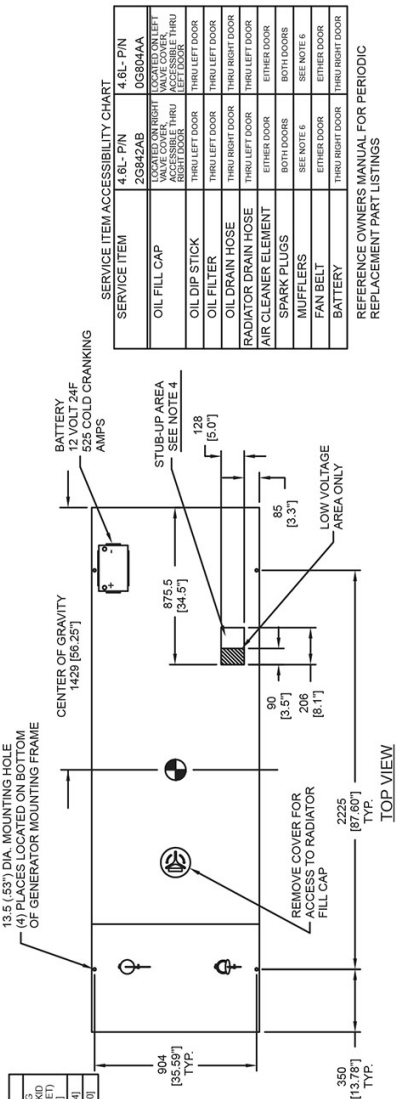
| WEIGHT DATA | | SHIPPING WEIGHT (GROSS AND NET) | |
|-------------|--------------------------------------|--------------------------------------|--------------------------------------|
| ENGINE KW | ENGINE (GENSET ONLY) WEIGHT (KG/LBS) | ENGINE (GENSET ONLY) WEIGHT (KG/LBS) | ENGINE (GENSET ONLY) WEIGHT (KG/LBS) |
| 5.4L/55KW | 895 [197.3] | 79 [17.5] | 974 [214.8] |
| 6.8L/70KW | 991 [218.5] | 79 [17.5] | 1070 [2360] |
| | 925 [204.0] | 79 [17.5] | 1005 [221.5] |

| SERVICE ITEM ACCESSIBILITY CHART | |
|----------------------------------|---------------------------------|
| OIL FILL CAP | 5.4L 55KW THRU RIGHT FRONT DOOR |
| OIL DIP STICK | THRU LEFT FRONT DOOR |
| OIL FILTER | THRU LEFT FRONT DOOR |
| OIL DRAIN HOSE | THRU RIGHT FRONT DOOR |
| RADIATOR DRAIN HOSE | THRU LEFT FRONT DOOR |
| AIR CLEANER ELEMENT | EITHER FRONT DOORS |
| SPARK PLUGS | BOTH FRONT DOORS |
| MUFFLERS | SEE NOTE 6 |
| FAN BELT | EITHER FRONT DOOR |
| BATTERY | THRU REAR DOOR |

REFERENCE OWNERS MANUAL FOR PERIODIC REPLACEMENT PART LISTINGS

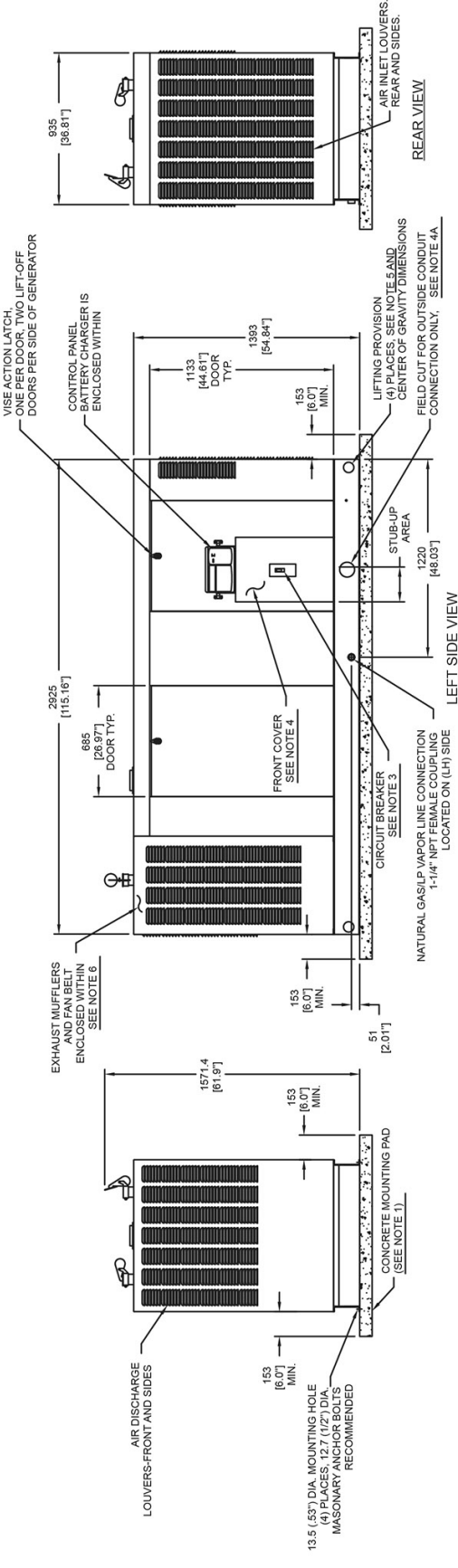
- NOTES:**
- 1) MINIMUM RECOMMENDED CONCRETE PAD SIZE: 1240 (48.8") WIDE X 2756 (108.5") LONG. REFERENCE INSTALLATION GUIDE SUPPLIED WITH UNIT FOR CONCRETE PAD GUIDELINES.
 - 2) ALLOW SUFFICIENT ROOM ON ALL SIDES OF THE GENERATOR FOR MAINTENANCE AND SERVICING. THIS UNIT MUST BE INSTALLED IN ACCORDANCE WITH CURRENT APPLICABLE NFPA 37 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL, STATE AND LOCAL CODES FOR MINIMUM DISTANCES FROM OTHER STRUCTURES.
 - 3) CIRCUIT BREAKER INFORMATION:
SEE SPECIFICATION SHEET WITHIN OWNERS MANUAL.
 - 4) INSIDE STUB-UP AREA FOR AC LOAD LEAD CONDUIT CONNECTION, NEUTRAL CONNECTION, BATTERY CHARGER 120 VOLT AC (5 AMP MAX.) CONNECTION, AND ACCESS TO TRANSFER SWITCH CONTROL WIRES. REMOVE FRONT COVER FOR ACCESS.
 - 4A) FIELD CUT HOLE IS ONLY REQUIRED FOR MOUNTING OF GENERATOR ON AN EXISTING PAD.
 - 5) REFERENCE OWNERS MANUAL FOR LIFTING WARNINGS.
 - 6) REMOVE EITHER LEFT OR RIGHT HAND SIDE PANEL TO ACCESS EXHAUST MUFFLERS.

80 kW



| WEIGHT DATA | |
|-------------------------------------|--------------------------|
| ENGINE/COIL | ENCLOSURE MATERIAL |
| 4.8-20KW | STEEL |
| | ALUMINUM |
| WEIGHT (KGS) | WEIGHT (LBS) |
| 1030 [2268] | 2268 [5000] |
| 79 [175] | 175 [385] |
| WEIGHT (WOODEN SHIPPING CRATES/SHD) | WEIGHT (SKID AND GENSET) |
| 1160 [2555] | 1160 [2555] |
| 1021 [2249] | 1021 [2249] |

- NOTES:**
- 1) MINIMUM RECOMMENDED CONCRETE PAD SIZE: 1241 (40') WIDE X 3231 (107.25') LONG. REFERENCE INSTALLATION GUIDE SUPPLIED WITH UNIT FOR CONCRETE PAD GUIDELINES.
 - 2) ALLOW SUFFICIENT ROOM ON ALL SIDES OF GENERATOR FOR MAINTENANCE AND SERVICING. SEE SPECIFICATION SHEET WITHIN OWNERS MANUAL FOR MAINTENANCE AND SERVICING. REFERENCE TO STANDARDS AND ANY OTHER FEDERAL, STATE AND LOCAL CODES FOR MINIMUM DISTANCES FROM OTHER STRUCTURES.
 - 3) CIRCUIT BREAKER INFORMATION: SEE SPECIFICATION SHEET WITHIN OWNERS MANUAL.
 - 4) INSIDE STUB-UP AREA FOR AC LOAD, LEAD CONDUIT CONNECTION, NEUTRAL CONNECTION, BATTERY CHARGER (20 VOLT AC (3 AMP MAX.) CONNECTION) AND ACCESS TO TRANSFER SWITCH CONTROL WIRES. REMOVE FRONT COVER FOR ACCESS.
 - 4A) FIELD CUT HOLE IS ONLY REQUIRED FOR MOUNTING OF GENERATOR ON AN EXISTING PAD.
 - 5) REFERENCE OWNERS MANUAL FOR LIFTING WARNINGS.
 - 6) REMOVE EITHER LEFT OR RIGHT HAND SIDE PANEL TO ACCESS EXHAUST MUFFLERS AND PAN BELT.



- REFERENCE OWNERS MANUAL FOR PERIODIC REPLACEMENT PART LISTINGS**

