

INCLUDES:

GENERAC® STANDBY GENERATORS

150 kW

Standby Power Rating Model QT150 (Bisque) - 150 kW 60Hz

Liquid-Cooled Engine Generator Sets



- Smart Battery Charger
- UV/Ozone Resistant Hoses

Generac Naturally Aspirated

• Two Line LCD Tri-lingual

Digital Nexus™ Controller

Isochronous Electronic Governor

Closed Coolant Recovery System

Gaseous Fueled 6.8L Engine

- ±1% Voltage Regulation
- Natural Gas or LP Operation
- 2 Year Limited Warranty
- UL 2200 Listed









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
- NEMA MG1-22 EVALUATION
- ✓ SYSTEM TORSIONAL TESTED
- 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 $\pm 1\%$ 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.



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	Flexible Disc
LOAD CAPACITY (STANDBY RATING)	150 kW
EXCITATION SYSTEM	Brushless

VOLTAGE REGULATION

TYPE	Full Digital
SENSING	Three Phase
REGULATION	± 1%

GENERATOR FEATURES

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

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	2200
FAN DIAMETER	26 inches
FAN MODE	Puller

FUEL SYSTEM

FUEL TYPE	Natural gas, propane vapor
CARBURETOR Down	
SECONDARY FUEL REGULATOR	Standard
FUEL SHUT OFF SOLENOID	Standard
OPERATING FUEL PRESSURE	11" - 14" H ₂ 0

ELECTRICAL SYSTEM

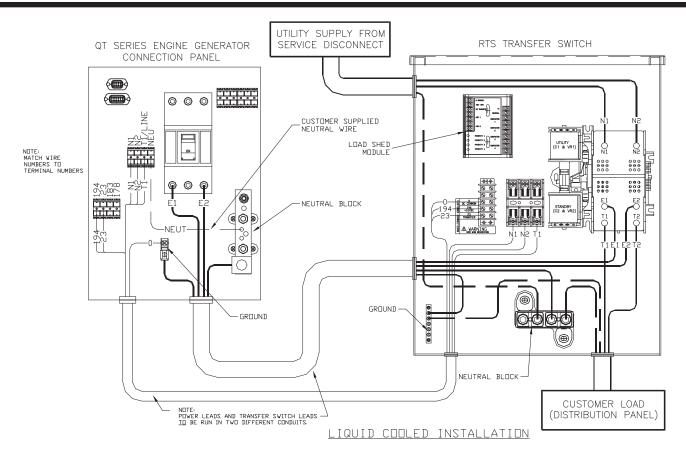
BATTERY CHARGE ALTERNATOR	12V 30 Amp
SMART BATTERY CHARGER	12V, 2 Amp
RECOMMENDED BATTERY	Group 24F, 12V, 525CCA
SYSTEM VOLTAGE	12 Volts

Generac® Standby Generator - 150 kW



	OPERATI	NG DATA				
KW RATING (LP/NG)				150		
ENGINE SIZE		6.8 Liter V-10				
GENERATOR OUTPUT VOLTAGE/KW - 60	OHz	LP	AMP	NG	AMP	CB Size
120/240V, 1-phase, 1.0 pf 120/208V, 3-phase, 0.8 pf 120/240V, 3-phase, 0.8 pf 277/480V, 3-phase, 0.8 pf	144 150 150 150	600 520 451 225	136 142 142 142	567 493 427 214	700 600 500 250	
GENERATOR LOCKED ROTOR KVA AVAILABLE @ VOLTAGE DIP OF 35% Single phase or 208-240 3-phase 480V 3-phase				320 350		
ENGINE FUEL CONSUMPTION (Natural G	as) (Propane)	N	latural Gas		Propar	ie
Exercise cycle 25% of rated load 50% of rated load 75% of rated load 100% of rated load			(ft ³ /hr.) 155 556 1070 1491 2061		gal/hr.) 1.7 6.09 11.72 16.33 22.57	(ft ³ /hr.) 63 224 431 600 830
For Btu content, multiply ft ³ /hr x 2520 (LP) or ft ³ / ENGINE COOLING	7111 X 1000 (NU)					
Air flow (inlet air including alternator and combustion air) System coolant capacity Heat rejection to coolant Max. operating air temp. on radiator Max. ambient temperature Gto 'F) Cc (F)		7,800 4.5 568,000 60 (150) 50 (140)				
COMBUSTION AIR REQUIREMENTS						
Flow at rated power 60 Hz	cfm	410				
SOUND EMISSIONS IN DBA						
Exercising at 7 meters Normal operation at 7 meters			66 79			
EXHAUST						
Exhaust flow at rated output 60 Hz cfm Exhaust temp. at muffler outlet °C (°F)			1,535 593 (1100)			
ENGINE PARAMETERS						
Rated synchronous RPM	3600					
POWER ADJUSTMENT FOR AMBIENT C	ONDITIONS					
Temperature Deration 3% for every 10 °C above - °C 1.65% for every 10 °F above - °F Altitude Deration 1% for every 100 m above - m 3% for every 1000 ft. above - ft.				25 77		
				182 600		

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
150	240 1 Ø	700	(3) 1/0 to 500 mcm
150	240 3 Ø	500	(3) 2/0 to 400 mcm
150	208 3 Ø	600	(3) 2/0 to 400 mcm
150	480 3 Ø	250	(1) 600 mcm to #4 or (2) 250 mcm to 1/0

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.

