GRIDIRON™
We generate peace-of-mind.

BRIGGS & STRATTON®

20kW[1] Fortress™ Standby Generator

FORTRESS™
The Smart Choice

Introducing our dealer exclusive line.
Available at your local Briggs & Stratton Dealer with these great features:

6 YEAR | 10 YEAR — Parts • Labor • Travel Limited Warranty[4]

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New Upgraded Control System

- New AVR optimizes generator performance with tighter voltage control
- LCD display that displays multi-line text and graphics
- Default exercise cycle setting of 16 seconds
- Low speed exercise available to save fuel and reduce noise
- Monitors cold temperatures to avoid moisture buildup in engine oil
- Cleaner power with improved frequency regulation

Designed for Easy Installation & Maintenance

- Approved for installation as close as 18" to a building[2]
- Hinged lid with removable side panels for better service access to the engine and alternator
- Controller, battery charger, and AVR can be replaced separately
- Cold weather kit included
- External on/off switch located on back of enclosure

Commercial Vanguard® Engine

- Easy conversion between natural gas (NG) and liquid propane vapor (LPV) during installation
- Advanced debris management keeping engine clean and cool for enhanced durability and performance
- Dynamically balanced crankshaft minimized engine noise and vibration

Charging System

- Independent battery charger
- Optimizes battery life with a 3-stage battery charger (bulk, absorption, and float stage)

Corrosion Resistant Enclosure & Base

- Made with automotive grade galvanneal steel or aluminum to resist rust
- Powder-coated paint for years of protection against chips and abrasions
- Certified to withstand hurricane-force winds up to 175mph[5]

Briggs & Stratton® Full Synthetic Generator Oil

- Shields the engine from low temperature sludge buildup and high temperature deposits
- Reduces engine wear, scoring and abrasion

Compatible with Symphony® II Power Management System

- Customizable to your home's needs
- Automatically balances the power of your home's electrical load including high wattage items like air conditioning units and electric ovens
- Compatible transfer switches and modules sold separately

Generator Set Rating

						Liquid Propane Vapor		Natural Gas		Limited Warranty[4]
Model	**Enclosure Type**	**Voltage**	**Phase[3]**	**Hz**	**Circuit Breaker Amps**	**LPV kW[1]**	**LPV Amps**	**NG kW[1]**	**NG Amps**	**Parts, Labor, Travel**
040587	Steel	120/240	1	60	100	20	83.3	18	75.5	6 Year
040589	Aluminum	120/240	1	60	100	20	83.3	18	75.5	6 Year
040609	Aluminum	120/240	1	60	100	20	83.3	18	75.5	10 Year

[1] This generator is certified in accordance with UL (Underwriters Laboratories) 2200 (stationary engine generator assemblies) and CSA (Canadian Standards Association) standard C22.2 No. 100-14 (motors and generators).
[2] The installation manual contains specific instructions related to generator placement in addition to NFPA 37, including the requirement that carbon monoxide detectors be installed and maintained in your home.
[3] Single phase units are rated at 1.0 power factor and three phase units are rated at 0.8 power factor.
[4] See operator's manual or BRIGGSandSTRATTON.com for complete warranty details.
[5] Up to 175 mph, when installed in accordance with the installation manual.

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Engine Specifications

Engine	
Engine Brand	Vanguard
Engine Speed (RPM)	3600
Engine Fuel	Liquid Propane Vapor (LPV) or Natural Gas (NG)
Engine Cylinder Configuration	OHV
Number of Cylinders	2
Displacement (L / Ci)	0.993 / 60.60
Compression Ratio	9:7:1
Governor Type	Electronic
Frequency Regulation	+/- 0.3 Hz (0.5%)
Valves	OHV with Hardened Seats
Ignition System	Fixed Timing Magnetron®
Starter Motor Rating Voltage	12 Volt
Battery Required	12 Volt, Group BCI 26 or 51, 540 CCA Minimum
High Temperature Switch	Included
Dura-Bore Cast Iron Cylinder Sleeve	Included

Lubrication	
Oil Capacity (L / qt)	2.3 / 2.46
Low Pressure Switch	Included
Lubrication System	Full Pressure
Oil	Briggs & Stratton 5W30 Full Synthetic
Low Oil Pressure Sensor	Yes
Alternator Specs	
Manufacturer	Briggs & Stratton
Type	Self-Excited, 4-Lead
Voltage Regulator	Automatic
Insulation	Class F
Peak Motor Starting kVA	41
Controller Features	
Generator Sensing	Single phase voltage monitoring
LCD Display	Displays multi-line text and graphics
Fault Display	Provides up to 39 detailed fault codes
Exercise Cycle	Six exercise length options Default: Start and run for 16 seconds; Abort exercise below 40° F (internal temperature)

Operations

Fuel Consumption[2]

	Full Load	1/2 Load	No Load
BTU / hr	NG - 260,000 LPV - 337,500	NG - 187,000 LPV - 207,500	NG - 99,000 LPV - 100,000
ft³ / hr	NG - 260 LPV - 135	NG - 187 LPV - 83	NG - 99 LPV - 40
m³ / hr	NG - 7.36 LPV - 3.82	NG - 5.30 LPV - 2.35	NG - 2.80 LPV - 1.13
g / hr	LPV - 3.65	LPV - 2.24	LPV - 1.08

Sound Rating At 7 Meters	
Low Idle Mode	64 dBA[4]
No Load	67 dBA[4]

6 YEAR 10 YEAR

Parts • Labor • Travel Limited Warranty[3]

Unlike some other standby generator manufacturers, our warranty covers **parts, labor AND travel for the full length of the warranty** with no start-up costs!

[1] This generator is certified in accordance with UL (Underwriters Laboratories) 2200 (stationary engine generator assemblies) and CSA (Canadian Standards Association) standard C22.2 No. 100-14 (motors and generators).
[2] Fuel consumption rates are estimated based on normal operating conditions at ½ load. Generator operation may be greatly affected by elevation and the cycling operation of multiple electrical appliances – fuel flow rates may vary depending on these factors.
[3] See operator's manual or BRIGGSandSTRATTON.com for complete warranty details.
[4] Lowest no-load measurement per ISO 3744. Sound level measurement at other locations around generator may be different depending upon installation configuration.

Additional Information

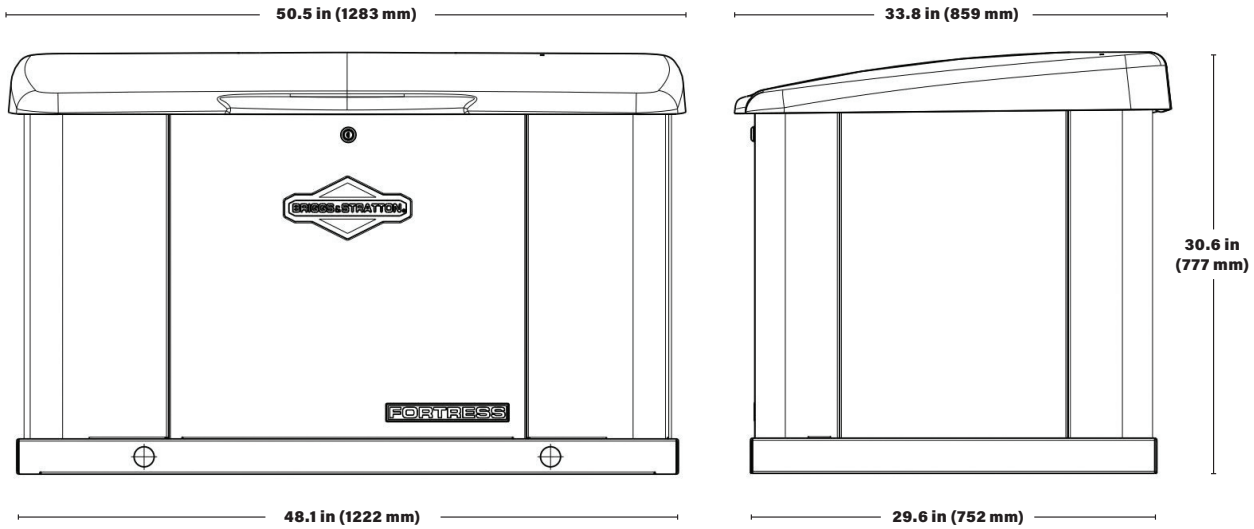
Operations	
Engine Warm Up (sec)	20 seconds after all settable delays
Engine Cool Down (min)	5
Response Time (sec)	Immediate after engine warm up

Weight and Dimensions	
Assembled Weight (lbs / kg)	Steel - 489 / 222 Aluminum - 440 / 200
Overall Dimensions (in / mm)	50.5 x 33.8 x 30.6 / 1283 x 859 x 777
Packaged Weight (lbs / kg)	Steel - 634 / 288 Aluminum - 580 / 263
Packaged Dimensions (in / mm)	68.1 x 41 x 39.9 / 1730 x 1041 x 1013
Enclosure Material	Galvanneal Steel or Aluminum with Corrosion Resistant Paint

Available Transfer Switches	
071100	100 Amp
071150	150 Amp
071200	200 Amp
071071	Symphony® II 100 Amp
071070	Symphony® II 150 Amp
071068	Symphony® II 200 Amp
071057	Symphony® II Dual 200 Amp

Certifications
CARB Compliant*
FCC Part 15 Class B / CAN ICES - 003 (B)
NFPA 37 Compliant
cUL Listed to CSA 22.2 No. 100-14
UL2200 Listed
EPA Certified Fuel System
Complies with NFPA 37 4.1.4.1.2

Available Accessories	
Maintenance Kit	6036
E-Stop Kit	6491
Power Management Low Voltage Module	71052, 71053
Power Management High Voltage Module	71051
Generator Status LED Kit	6535
Battery Warmer	6578
InfoHub Universal	6574



* CARB does not regulate emergency standby generators outputting less than 50 HP. Only the EPA standards apply.

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Support every step of the way

Need help? Visit gridironpower.ca

Complete the web form and a local dealer will contact you to answer questions on our generators, transfer switches and accessories.

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Briggs & Stratton has a policy of continuous product improvement and reserves the right to modify its specifications at any time and without prior notice.

Not for Prime Power or use where standby systems are legally required, for serious life safety or health hazards, or where lack of power hampers rescue of fire-fighting operations.

BS1155 - 9/19

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