

## 20kW<sup>1</sup> Fortress™ Standby Generator



### FORTRESS™ The Smart Choice

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



Parts • Labor • Travel  
Limited  
Warranty<sup>4</sup>



#### 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

- Easy to move into installation location using a two-wheel dolly
- Approved for installation as close as 18" to a building<sup>2</sup>
- 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

- Powerful V-Twin OHV engine
- Easy conversion between natural gas (NG) and liquid propane vapor (LPV) during installation

#### 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 galvalume 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<sup>5</sup>

#### Briggs & Stratton® Full Synthetic Generator Oil

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

#### 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
- Offers whole house power with a more affordable home generator
- Compatible transfer switches sold separately

#### Generator Set Rating

Model	Enclosure Type	Voltage	Phase <sup>3</sup>	Hz	Circuit Breaker Amps	Liquid Propane Vapor		Natural Gas		Limited Warranty <sup>4</sup>
						LPV kW <sup>1</sup>	LPV Amps	NG kW <sup>1</sup>	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

<sup>1</sup> This generator is certified in accordance with UL (Underwriters Laboratories) 2200 (stationary engine generator assemblies) and CSA (Canadian Standards Association) standard C22.2 No. 100-114 (motors and generators).

<sup>2</sup> 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.

<sup>3</sup> Single phase units are rated at 1.0 power factor and three phase units are rated at 0.8 power factor.

<sup>4</sup> See operator's manual or BRIGGSandSTRATTON.com for complete warranty details.

<sup>5</sup> Up to 175 mph, when installed in accordance with the installation manual.



## Engine Specifications

Engine		Lubrication	
Engine Brand	Vanguard	Oil Capacity (L / qt)	2.3 / 2.46
Engine Speed (RPM)	3600	Lubrication System	Full Pressure
Engine Fuel	Liquid Propane Vapor (LPV) or Natural Gas (NG)	Recommended Oil	5W30 Full Synthetic
Engine Cylinder Configuration	OHV	Low Oil Pressure Sensor	Yes
Number of Cylinders	2	Alternator Specs	
Displacement (L / Ci)	0.993 / 60.60	Manufacturer	Briggs & Stratton
Compression Ratio	9:7:1	Type	Self-Excited, 4-Lead
Governor Type	Electronic	Voltage Regulator	Automatic
Frequency Regulation	+/- 0.3 Hz (0.5%)	Insulation	Class F
Valves	OHV with Hardened Seats	Controller Features	
Ignition System	Fixed Timing Magnetrone®	Generator Sensing	Single phase voltage monitoring
Starter Motor Rating Voltage	12 Volt	LCD Display	Displays multi-line text and graphics
Battery Required	12 Volt, Group BCI 24, 500 CCA Minimum	Fault Display	Provides additional data regarding fault
Peak Motor Starting kVA	41	Exercise Cycle	Default: Start and run for 16 seconds; Abort exercise below 40° F (internal temperature)
		Power Save Mode	Reduces power consumption

## Operations

Fuel Consumption <sup>2</sup>				Sound Rating At 7 Meters
	Full Load	1/2 Load	No Load	64 dBA <sup>4</sup>
BTU / hr	NG - 218,000 LPV - 239,000	NG - 150,000 LPV - 152,000	NG - 92,000 LPV - 72,000	
ft <sup>3</sup> / hr	NG - 219 LPV - 99	NG - 152 LPV - 64	NG - 95.3 LPV - 32	
m <sup>3</sup> / hr	NG - 6.2 LPV - 2.8	NG - 4.3 LPV - 1.8	NG - 2.7 LPV - 0.9	
g / hr	LPV - 2.7	LPV - 1.7	LPV - 0.8	



Parts • Labor • Travel  
Limited  
Warranty<sup>3</sup>

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!

<sup>1</sup> 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).

<sup>2</sup> 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.

<sup>3</sup> See operator's manual or BRIGGSandSTRATTON.com for complete warranty details.

<sup>4</sup> Lowest no-load measurement per ISO 3744. Sound level measurement at other locations around generator may be different depending upon installation configuration.

**Additional Information****Other Features**

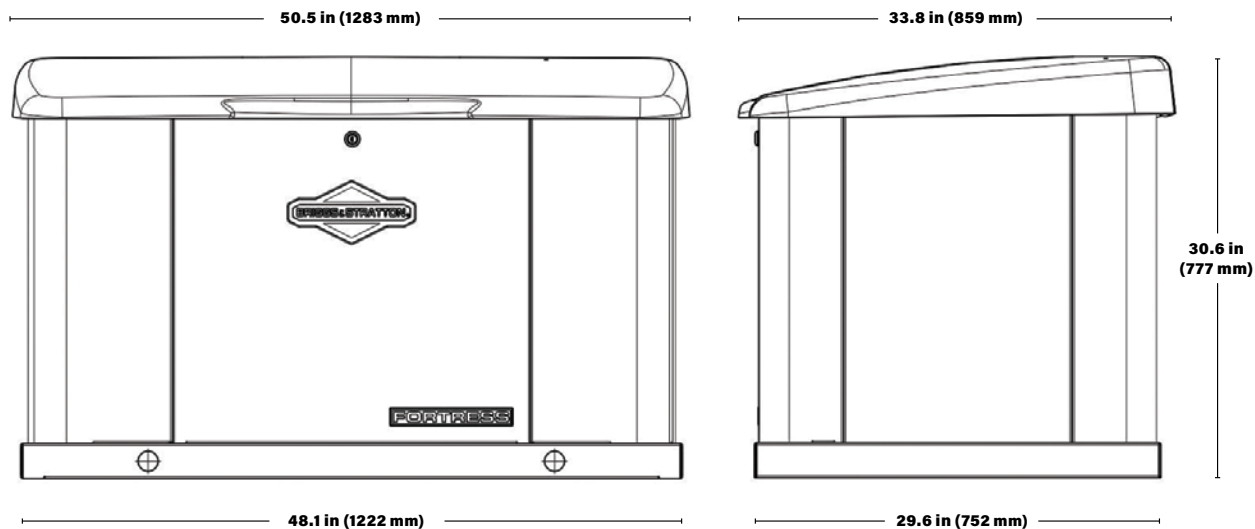
<b>Enclosure Material</b>	Galvanneal Steel or Aluminum with Corrosion Resistant Paint
<b>Engine Warm Up (sec)</b>	20 seconds after all settable delays
<b>Engine Cool Down (min)</b>	5
<b>Response Time (sec)</b>	Immediate after engine warm up

**Weight and Dimensions**

<b>Assembled Weight (lbs / kg)</b>	Steel - 489 / 222 Aluminum - 440 / 200
<b>Overall Dimensions (in / mm)</b>	50.5 x 33.8 x 30.6 / 1283 x 859 x 777
<b>Packaged Weight (lbs / kg)</b>	Steel - 634 / 288 Aluminum - 580 / 263
<b>Packaged Dimensions (in / mm)</b>	68.1 x 41 x 39.9 / 1730 x 1041 x 1013

**Available Transfer Switches**

<b>071100</b>	100 Amp
<b>071150</b>	150 Amp
<b>071200</b>	200 Amp
<b>071071</b>	Symphony® II 100 Amp
<b>071070</b>	Symphony® II 150 Amp
<b>071068</b>	Symphony® II 200 Amp
<b>071057</b>	Symphony® II Dual 200 Amp

**Available Certifications****CARB Compliant\*****NFPA 37 Compliant****cUL Listed to CSA 22.2 No. 100-14****UL2200 Listed****EPA Certified Fuel System****Available Accessories****Maintenance Kit** 6035**E-Stop Kit** 6360**Power Management Low Voltage Module** 6536**Power Management High Voltage Module** 6537**Generator Status LED Kit** 6535**Uninterruptible Power Supply** 6581**Dual Twisted Wire Spool (100 ft)** 6541**Dual Twisted Wire Spool (200 ft)** 6540**Dual Twisted Wire Spool (500 ft)** 6539**Dual Twisted Wire Spool (1,000 ft)** 6542

\* 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 [BRIGGSandSTRATTON.com](http://BRIGGSandSTRATTON.com)**

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

**Call today for a FREE  
in-home estimate!  
800-743-4115**

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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 - 8/19

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