

# 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

- 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

- 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<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

### 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

| 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. 100-14 (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                              |  |
|-------------------------------------|--|
| 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 Magnatron®                        |
| 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<br>Default: Start and run for 16 seconds;<br>Abort exercise below 40° F (internal temperature) |

**Operations**

| Fuel Consumption <sup>2</sup> | Sound Rating At 7 Meters      |                               |                              |
|-------------------------------|-------------------------------|-------------------------------|------------------------------|
|                               | Full Load                     | 1/2 Load                      | No Load                      |
| BTU / hr                      | NG - 260,000<br>LPV - 337,500 | NG - 187,000<br>LPV - 207,500 | NG - 99,000<br>LPV - 100,000 |
| ft <sup>3</sup> / hr          | NG - 260<br>LPV - 135         | NG - 187<br>LPV - 83          | NG - 99<br>LPV - 40          |
| m <sup>3</sup> / hr           | NG - 7.36<br>LPV - 3.82       | NG - 5.30<br>LPV - 2.35       | NG - 2.80<br>LPV - 1.13      |
| g / hr                        | LPV - 3.65                    | LPV - 2.24                    | LPV - 1.08                   |

| Sound Rating At 7 Meters |                     |
|--------------------------|---------------------|
| Low Idle Mode            | 64 dBA <sup>4</sup> |
| No Load                  | 67 dBA <sup>4</sup> |



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**

**Operations**

|                               |                                      |
|-------------------------------|--------------------------------------|
| <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<br>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<br>Aluminum - 580 / 263 |
| <b>Packaged Dimensions (in / mm)</b> | 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**

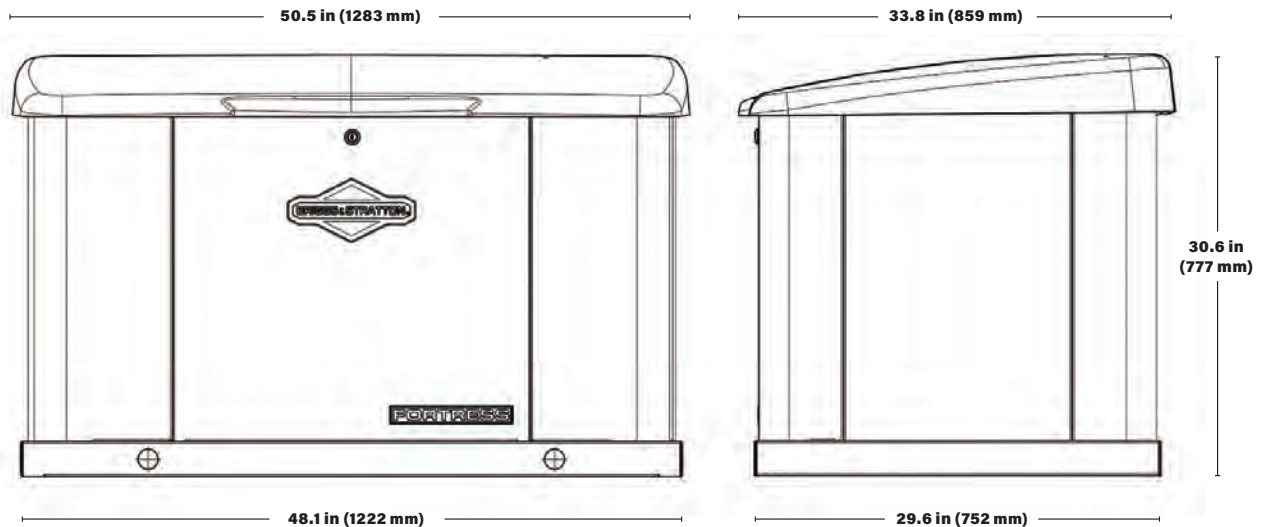
|               |                           |
|---------------|---------------------------|
| <b>071100</b> | 100 Amp                   |
| <b>071150</b> | 150 Amp                   |
| <b>071200</b> | 200 Amp                   |
| <b>071071</b> | Symphony® II 100 Amp      |
| <b>071070</b> | Symphony®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

**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**

|   |              |
|---|--------------|
| <b>Maintenance Kit</b>                      | 6036         |
| <b>E-Stop Kit</b>                           | 6491         |
| <b>Power Management Low Voltage Module</b>  | 71052, 71053 |
| <b>Power Management High Voltage Module</b> | 71051        |
| <b>Generator Status LED Kit</b>             | 6535         |
| <b>Battery Warmer</b>                       | 6578         |
| <b>InfoHub Universal</b>                    | 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 [powernow.com](http://powernow.com)**

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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