

# 30kW<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>3</sup>



### Easy to Service

- Convenient access to maintenance and disassembly points for quicker trouble-free servicing
- Easier to open gas spring roof keeps the hood in place during service
- Direct access to engine, alternator and fuel system

### Quality Clean Power

- Ensures that electronics are safely powered

### Liquid-Cooled Briggs & Stratton® Engine

- Delivers the dependability homeowners expect from their generator
- Tailored to standby generator applications with hardened seats and valves
- Easy conversion between natural gas (NG) and liquid propane gas (LP) during installation

### 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

### Corrosion Resistant Enclosure & Base

- Made with automotive grade galvanized steel to resist rust
- Powder-coated paint for years of protection against chips and abrasions

### Briggs & Stratton® Full Synthetic Generator Oil

- Shields the engine from low temperature sludge buildup and high temperature deposits
- Reduces engine wear, scuffing and abrasion
- Enhanced cold weather start-up protection to -20°F

### Generator Set Rating

Model	Voltage	Power Factor	Phase <sup>2</sup>	Hz	Circuit Breaker Amps	Liquid Propane Vapor		Natural Gas		Controller	Limited Warranty <sup>3</sup>
						kW <sup>1</sup> / kVA	Amps	kW <sup>1</sup> / kVA	Amps		
076880	120 / 240	1.0	1	60	125	30 / 30	125	30 / 30	125	Briggs & Stratton®	6 Year

<sup>1</sup> This generator is rated 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> Single phase units are rated at 1.0 power factor and three phase units are rated at 0.8 power factor.

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



## Engine Specifications

Engine	
Manufacturer	Briggs & Stratton®
Type	1.6L, 4 Cycle, Naturally Aspirated
Speed (RPM)	3600
Cylinder Arrangement	Inline 4
Displacement (L)	1.6
Bore & Stroke (in / mm)	3.19 x 3.03 / 81 x 77
Compression Ratio	9.5:1
Governor Type	Electronic
Frequency Regulation Steady State	+/- 0.5%
Frequency Regulation No-load to Full-load	Isochronous
Air Filter Type	Dry
Limited Warranty <sup>3</sup>	6 Years Parts, Labor and Travel
Lubrication System	
Type	Full Pressure
Oil Capacity (qt / L)	3.7 / 3.5
Oil Filter (Quantity / Type)	1 / Spin-On
Cooling System	
Heat Rejected to Cooling Water at Rated Load (BTU/min / kcal/sec)	1366 / 5.7
Water Pump Type	Centrifugal
Sound Rating at 7 Meters, Lowest Side	
No Load	66 dB(A) <sup>2</sup>
Air Induction System	
Combustion Air (cfm / m <sup>3</sup> /min)	81 / 2.3

Electrical System			
Ignition System			Electronic
Battery Quantity			1
Battery Voltage (VDC)			12
Battery CCA (A)			525
Battery Charging Alternator			
Ground (Negative/Positive)			Negative
Voltage (VDC)			12
Amperage (A)			90
Starter Motor Voltage (VDC)			12
Exhaust System			
Exhaust Manifold Type			Dry
Exhaust Flow at Rated Load (cfm / m³/min)			431 / 12.2
Exhaust Temperature at Rated Load (°F / °C)			1280 / 693
Maximum Allowable Back Pressure (in Hg / kPa)			3.5 / 11.9
Fuel System			
Fuel Type			LPV or NG
Fuel Supply Line Inlet			1 NPT
Recommended Fuel, Lower Heating Value Minimum (BTU/ft³ / MJ/m³)			NG - 904 / 34.3 LPV - 2338 / 87.1
Fuel Supply Pressure (in H₂O / mbar)			5-11 / 12-28
Fuel Consumption <sup>4</sup>			
	Full Load	1/2 Load	No Load
BTU/hr	NG - 414,500 LP - 436,800	NG - 275,400 LP - 287,400	NG - 136,200 LP - 138,000
ft³/hr	NG - 415 LP - 175	NG - 275 LP - 115	NG - 136 LP - 55
m³/hr	NG - 11.7 LP - 4.9	NG - 7.8 LP - 3.3	NG - 3.9 LP - 1.6
Engine Output Deratings			
Rated Temperature (°F / °C)		77 / 25	

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<sup>2</sup> Lowest no-load measurement per ISO 3744. Sound level measurement at other locations around generator may be different depending upon installation configuration.

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

<sup>4</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.



## Additional Standard Features

### Weight & Dimensions

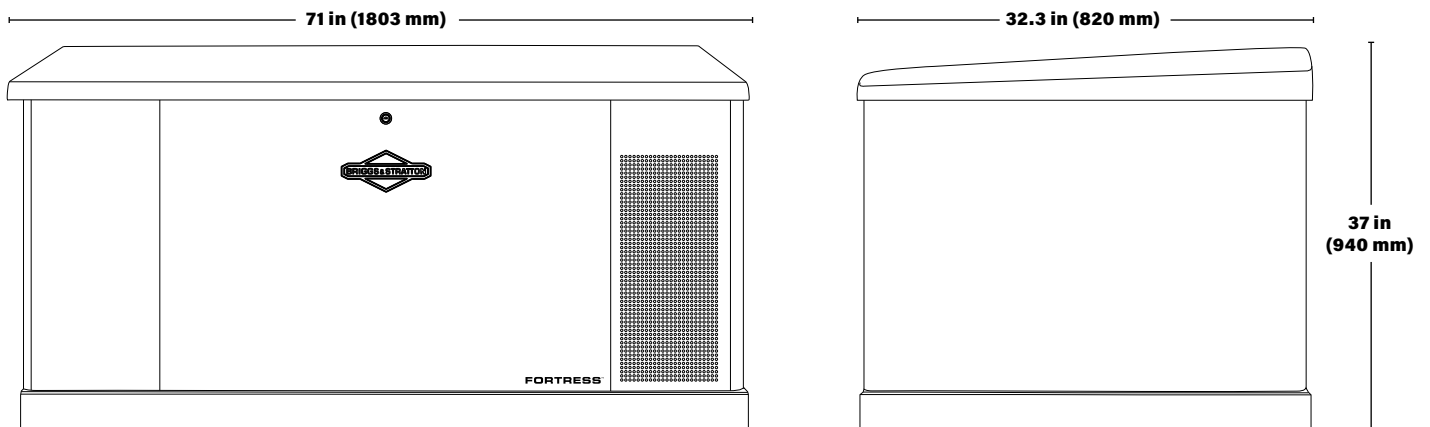
<b>Assembled Weight (lbs / kg)</b>	1086 / 493
<b>Overall Dimensions (in / mm)</b>	71 x 32.3 x 37 / 1803 x 820 x 940
<b>Packaged Weight (lbs / kg)</b>	1135 / 515
<b>Packaged Dimensions (in / mm)</b>	75.2 x 36 x 43.7 / 1910 x 914 x 1110

### Available Accessories

<b>6268 / 6280</b>	Maintenance Kit
<b>6270</b>	Cold Weather Kit
<b>6517</b>	InfoHub™
<b>6144</b>	Remote LED Kit
<b>6471</b>	Retrofit Module
<b>6491</b>	Local Emergency Stop Switch

### Other Features

- Battery rack and cables
- Electronic, isochronous governor
- Gas fuel system (includes fuel mixer, electronic secondary gas regulator, gas solenoid valve, and flexible fuel line between the engine and the skid-mounted fuel system components)
- Integral vibration isolation
- Oil drain extension
- Operation and installation literature<sup>2</sup>
- Galvanneal enclosure



<sup>1</sup> This generator is rated in accordance with UL (Underwriters Laboratories) 2200 (stationary engine generator assemblies) and CSA (Canadian Standards Association) standard C22.2 No. 100-14 (motor 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.



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### Alternator Specifications

#### 1 Phase

<b>Model</b>	076880
<b>Alternator Model</b>	30BSPP2-0
<b>Manufacturer</b>	Coliseum
<b>Type</b>	Brushless, 4-Lead
<b>Frequency (Hz)</b>	60
<b>Phase</b>	1
<b>Alternator Configuration</b>	-
<b>Exciter Type</b>	Self-Excited
<b>Number of Poles</b>	2
<b>Voltage Regulator</b>	Analog, 1-Phase Sensing
<b>Insulation Rating</b>	Class H
<b>Designed Temperature Rise Limit</b>	125°C
<b>Bearing (Quantity / Type)</b>	1 / Sealed
<b>Coupling</b>	Flexible Disk
<b>Amortisseur Windings</b>	Full
<b>Voltage Regulation, NL to FL</b>	+/- 1.0%
<b>One Step Load Acceptance</b>	100% of Rating
<b>Total Harmonic Distortion (THD), NL to FL</b>	< 5.0
<ul style="list-style-type: none"><li>• Windings are insulated using the latest vacuum pressure impregnation technologies</li><li>• Superior voltage waveform from a two-thirds pitch stator and skewed main stator</li><li>• Manufactured according to the following standards: UL1004, NEMA MG1, IEC 60034-1</li></ul>	



## 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.

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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.

This standby is Not for Prime Power applications.

BS1157 - 8/18

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