

# 25 & 30kW<sup>1</sup> Standby Generator



## Briggs & Stratton<sup>®</sup> The Smart Choice

Durable back-up power for businesses and luxury homes. Guard against losses due to power outages with a Briggs & Stratton Standby Generator.



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<sup>®</sup> Engine

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

### Symphony<sup>®</sup> 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 galvalume steel to resist rust
- Powder-coated paint for years of protection against chips and abrasions

### Briggs & Stratton<sup>®</sup> 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' / kVA	Amps	kW' / kVA	Amps		
076180	120 / 240	1.0	1	60	125	25 / 25	104	25 / 25	104	Briggs & Stratton <sup>®</sup>	5 Year
076171	120 / 208	0.8	3	60	90	25 / 31	86	25 / 31	86	Briggs & Stratton <sup>®</sup>	5 Year
076173	120 / 240	0.8	3	60	80	25 / 31	75	25 / 31	75	Briggs & Stratton <sup>®</sup>	5 Year
076191	120 / 208	0.8	3	60	110	30 / 38	104	30 / 38	104	Briggs & Stratton <sup>®</sup>	5 Year
076193	120 / 240	0.8	3	60	90	30 / 38	90	30 / 38	90	Briggs & Stratton <sup>®</sup>	5 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 0.8 power factor.

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



**Engine Specifications**

Engine	
<b>Manufacturer</b>	Briggs & Stratton®
<b>Type</b>	1.6L 4 Cycle, Naturally Aspirated
<b>Speed (RPM)</b>	3600
<b>Cylinder Arrangement</b>	Inline 4
<b>Displacement (L)</b>	1.6
<b>Bore &amp; Stroke (in / mm)</b>	3.19 x 3.03 / 81 x 77
<b>Compression Ratio</b>	9.5:1
<b>Governor Type</b>	Electronic
<b>Frequency Regulation Steady State</b>	+/- 0.5%
<b>Frequency Regulation No-load to Full-load</b>	Isochronous
<b>Air Filter Type</b>	Dry
<b>Limited Warranty<sup>3</sup></b>	5 Years Parts, Labor and Travel
Lubrication System	
<b>Type</b>	Full Pressure
<b>Oil Capacity (qt / L)</b>	3.7 / 3.5
<b>Oil Filter (Quantity / Type)</b>	1 / Spin-On
Cooling System	
<b>Heat Rejected to Cooling Water at Rated Load (BTU/min / kcal/sec)</b>	1366 / 5.7
<b>Water Pump Type</b>	Centrifugal
Sound Rating at 7 Meters, Lowest Side	
<b>No Load</b>	66 dB(A) <sup>2</sup>
Air Induction System	
<b>Combustion Air (cfm / m<sup>3</sup>/min)</b>	81 / 2.3

Electrical System	
<b>Ignition System</b>	Electronic
<b>Battery Quantity</b>	1
<b>Battery Voltage (VDC)</b>	12
<b>Battery CCA (A)</b>	525
Battery Charging Alternator	
<b>Ground (Negative/Positive)</b>	Negative
<b>Voltage (VDC)</b>	12
<b>Amperage (A)</b>	90
<b>Starter Motor Voltage (VDC)</b>	12

Exhaust System	
<b>Exhaust Manifold Type</b>	Dry
<b>Exhaust Flow at Rated Load (cfm / m<sup>3</sup>/min)</b>	431 / 12.2
<b>Exhaust Temperature at Rated Load (°F / °C)</b>	1280 / 693
<b>Maximum Allowable Back Pressure (in Hg / kPa)</b>	3.5 / 11.9

Fuel System	
<b>Fuel Type</b>	LPV or NG
<b>Fuel Supply Line Inlet</b>	1 NPT
<b>Recommended Fuel, Lower Heating Value Minimum (BTU/ft<sup>3</sup> / MJ/m<sup>3</sup>)</b>	NG - 904 / 34.3 LPV - 2338 / 87.1
<b>Fuel Supply Pressure (in H<sub>2</sub>O / mbar)</b>	5-11 / 12-28

Fuel Consumption <sup>4</sup>				
	Full Load	1/2 Load	No Load	
25kW	<b>BTU/hr</b>	NG - 368,100 LP - 387,000	NG - 252,200 LP - 262,500	NG - 136,200 LP - 138,000
	<b>ft<sup>3</sup>/hr</b>	NG - 368 LP - 155	NG - 252 LP - 105	NG - 136 LP - 55
	<b>m<sup>3</sup>/hr</b>	NG - 10.4 LP - 4.4	NG - 7.1 LP - 3.0	NG - 3.9 LP - 1.6
30kW	<b>BTU/hr</b>	NG - 414,500 LPV - 436,800	NG - 275,400 LPV - 287,400	NG - 136,200 LPV - 138,000
	<b>ft<sup>3</sup>/hr</b>	NG - 415 LPV - 175	NG - 275 LPV - 115	NG - 136 LPV - 55
	<b>m<sup>3</sup>/hr</b>	NG - 11.7 LPV - 4.9	NG - 7.8 LPV - 3.3	NG - 3.9 LPV - 1.6

Engine Output Deratings	
<b>Rated Temperature (°F / °C)</b>	77 / 25
<b>Rated Altitude</b>	1200 ft (366 m) Above Sea Level
<b>Temperature Derate</b>	1.5% for Each 10°F (5.6°C) Above Rated Temperature
<b>Altitude Derate</b>	2.5% for Each 1000 ft (305 m) Above Rated Altitude

<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> 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**

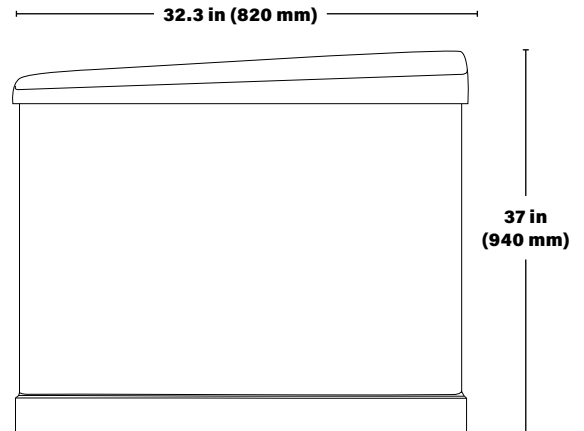
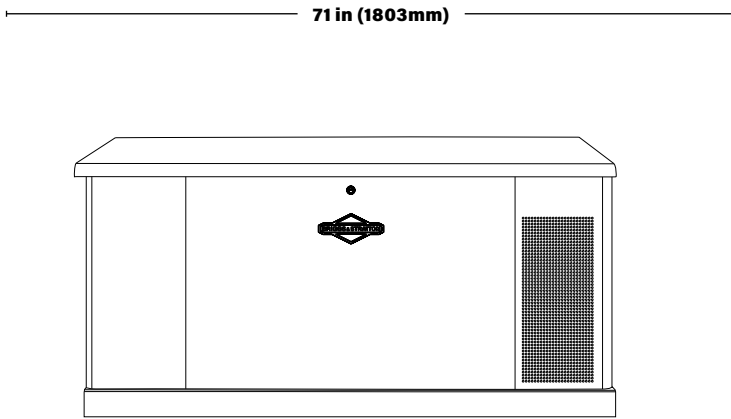
<b>Assembled Weight (lbs / kg)</b>	1000 / 454
<b>Overall Dimensions (in / mm)</b>	71 x 32.3 x 37 / 1803 x 820 x 940
<b>Packaged Weight (lbs / kg)</b>	1086 / 493
<b>Packaged Dimensions (in / mm)</b>	75.8 x 35.9 x 43.7 / 1925 x 912 x 1110

**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



**Controller**



**Briggs & Stratton® AMF Controller**

- User-friendly control panel for troubleshooting
- Conveniently monitors diagnostic conditions, displays system fault codes and sets weekly exercise cycle
- Easy-to-read alpha-numeric scrolling display
- UL recognized

<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.



### Alternator Specifications

	1 Phase	3 Phase	3 Phase	3 Phase	3 Phase
<b>Model</b>	076180	076171	076173	076191	076193
<b>Alternator Model</b>	25BSPP2-0	25TBSPP2-2	25TBSPP2-2	30TBSPP2-2	30TBSPP2-2
<b>Manufacturer</b>	Coliseum	Coliseum	Coliseum	Coliseum	Coliseum
<b>Type</b>	Brushed, 4-Lead	Brushless, 12-Lead	Brushless, 12-Lead	Brushless, 12-Lead	Brushless, 12-Lead
<b>Frequency (Hz)</b>	60	60	60	60	60
<b>Phase</b>	1	3	3	3	3
<b>Alternator Configuration</b>	-	Wye	Delta	Wye	Delta
<b>Exciter Type</b>	Self-Excited	Self-Excited	Self-Excited	Self-Excited	Self-Excited
<b>Number of Poles</b>	2	2	2	2	2
<b>Voltage Regulator</b>	Analog, 1-Phase Sensing	Analog, 1-Phase Sensing	Analog, 1-Phase Sensing	Analog, 1-Phase Sensing	Analog, 1-Phase Sensing
<b>Insulation Rating</b>	Class H	Class H	Class H	Class H	Class H
<b>Designed Temperature Rise Limit</b>	125°C	125°C	125°C	125°C	125°C
<b>Bearing (Quantity / Type)</b>	1 / Sealed	1 / Sealed	1 / Sealed	1 / Sealed	1 / Sealed
<b>Coupling</b>	Flexible Disk	Flexible Disk	Flexible Disk	Flexible Disk	Flexible Disk
<b>Amortisseur Windings</b>	Full	Full	Full	Full	Full
<b>Voltage Regulation, NL to FL</b>	+/- 1.0%	+/- 1.0%	+/- 1.0%	+/- 1.0%	+/- 1.0%
<b>One Step Load Acceptance</b>	100% of Rating	100% of Rating	100% of Rating	100% of Rating	100% of Rating
<b>Total Harmonic Distortion (THD), NL to FL</b>	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

- Windings are insulated using the latest vacuum pressure impregnation technologies
- Superior voltage waveform from a two-thirds pitch stator and skewed main stator
- Manufactured according to the following standards:  
UL1004, NEMA MG1, IEC 60034-1

## 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.

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