

# 35kW<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>



### Corrosion Resistant Aluminum Enclosure

- Durable enclosures are built to last, protecting against extreme weather conditions and corrosion

### Easy to Service

- Convenient internal swing open doors allows easy access to the engine; no more taking apart the bolted finger guards, saving time and the hassle of disassembly

### Quality Clean Power

- Ensures that electronics are safely powered

### Block Heater

- Ships with a pre-installed block heater ensuring smooth start-ups any time an outage occurs when the temperatures dip below freezing

### Durable Industrial Engine

- Found in industrial applications, the premium industrial 1,800 RPM engine provides strong, reliable power without giving up quiet operation or durability

### NFPA-110

- May be used in NFPA-110, Level 2, applications with appropriate accessories<sup>4</sup>

### 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>	Amps	kW <sup>1</sup>	Amps		
076830	120 / 240	1.0	1	60	150	35	145	35	145	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 0.8 power factor

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

<sup>4</sup> This unit must be installed, by licensed contractor, in accordance with requirements of NFPA-110 codes and standards as defined in NEC Article 701, in addition to local AHJ requirements. This generator set is not authorized by Briggs & Stratton for use in NFPA-110, Level 1 applications.



## Engine Specifications

Engine	
Manufacturer	PSI
Type	4.3L Industrial Powertrain 4 Cycle, Naturally Aspirated
Speed (RPM)	1800
Cylinder Arrangement	V6
Displacement (L)	4.3
Bore & Stroke (in / mm)	4 x 3.48 / 101.6 x 88
Compression Ratio	9.8:1
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>	3 Years Parts, Labor and Travel
Lubrication System	
Type	Full Pressure
Oil Capacity (qt / L)	4.5 / 4.3
Oil Filter (Quantity / Type)	1 / Spin-On
Cooling System	
Heat Rejected to Cooling Water at Rated Load (BTU/min / kcal/sec)	2300 / 9.7
Water Pump Type	Centrifugal
Sound Rating at 7 Meters, Lowest Side	
No Load	67 dB(A) <sup>2</sup>
Air Induction System	
Combustion Air (cfm / m <sup>3</sup> /min)	112 / 3.2

Electrical System			
Ignition System			HVS Distributor
Battery Quantity			1
Battery Voltage (VDC)			12
Battery CCA (A)			775
Battery Charging Alternator			
Ground (Negative/Positive)			Negative
Voltage (VDC)			12
Amperage (A)			70
Starter Motor Voltage (VDC)			12
Exhaust System			
Exhaust Manifold Type			Dry
Exhaust Flow at Rated Load (cfm / m³/min)			362 / 10.3
Exhaust Temperature at Rated Load (°F / °C)			1350 / 732
Maximum Allowable Back Pressure (in Hg / kPa)			3 / 10.2
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)			7-11 / 17-28
Fuel Consumption <sup>4</sup>			
	Full Load	1/2 Load	No Load
BTU/hr	NG - 393,844 LP - 399,116	NG - 253,217 LP - 257,844	NG - 144,718 LP - 136,087
ft³/hr	NG - 394 LP - 160	NG - 253 LP - 103	NG - 145 LP - 54
m³/hr	NG - 11.2 LP - 4.5	NG - 7.2 LP - 2.9	NG - 4.1 LP - 1.5

Engine Output Deratings	
Rated Temperature (°F / °C)	77 / 25
Rated Altitude	1200 ft (366 m) Above Sea Level
Temperature Derate	1.5% for Each 10°F (5.6°C) Above Rated Temperature
Altitude Derate	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 measurement of 12 microphones around generator. 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>	1634 / 741
<b>Overall Dimensions (in / mm)</b>	91 x 39.4 x 41 / 2311 x 1001 x 1041
<b>Packaged Weight (lbs / kg)</b>	2033 / 922
<b>Packaged Dimensions (in / mm)</b>	104 x 48 x 50.4 / 2639 x 1219 x 1280

## Standard Controllers



### Briggs & Stratton® AMF Controller for Single-Phase

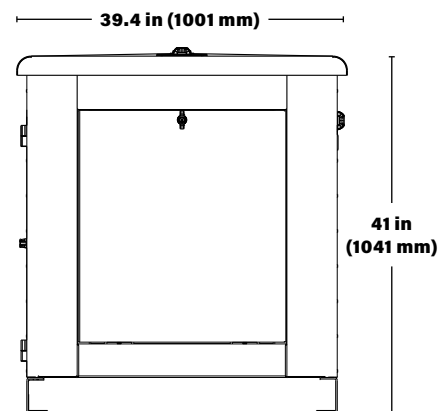
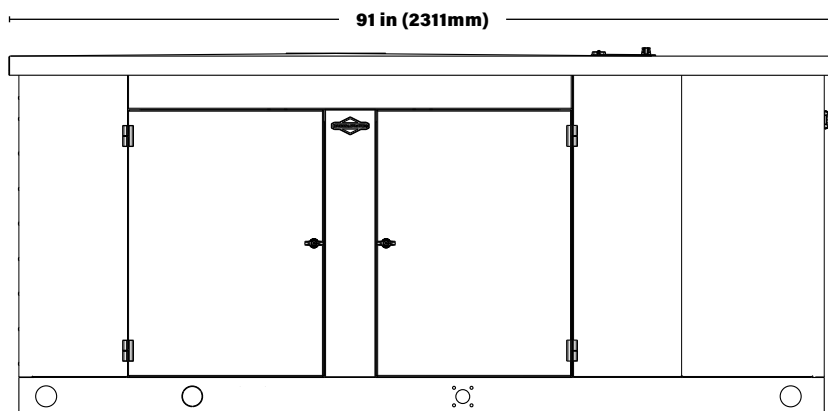
- User-friendly control panel for troubleshooting
- Conveniently monitors diagnostic conditions, displays system fault codes and sets weekly exercise cycle
- Easy-to-read alpha-numeric scrolling display
- UL recognized

### Available Accessories

<b>6343</b>	Battery Warmer
<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>



<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 business and home.



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### Alternator Specifications

#### 1 Phase

<b>Model</b>	076830
<b>Alternator Model</b>	35BSPP-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>	4
<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

- 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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