

80kW¹ Natural Gas Standby Generator



Briggs & Stratton® 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
Warranty³



Standard Features

- UL 2200 Listed
- Rugged seven-gauge steel base and protected by an enclosure made from Galvannealed Steel
- Generators are powered by EPA Certified 1,800 RPM industrial grade PSI engine
- Marinco 6A battery charger
- DSE 4520 MKII controller

- High performance, durable alternator
- Industry leading 3-year standard limited warranty. 3 years parts, labor and travel³

NFPA-110

- May be used in NFPA-110, Level 2, applications with appropriate accessories⁴

Generator Set Rating

Model	Voltage	Power Factor	Phase ²	Hz	kW ¹ / kVA	Natural Gas		Limited Warranty ³
						Amps	Circuit Breaker Amps	Parts, Labor, Travel
080080	120 / 240	1.0	1	60	80 / 80	333	350	3 Year
080081	120 / 208	0.8	3	60	80 / 100	277	300	3 Year
080082	120 / 240	0.8	3	60	80 / 100	240	300	3 Year
080083	277 / 480	0.8	3	60	80 / 100	120	150	3 Year
080084	347 / 600	0.8	3	60	80 / 100	96	100	3 Year

¹ 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).

² Single phase units are rated at 1.0 power factor and three phase units are rated 0.8 power factor.

³ See operator's manual or BRIGGSandSTRATTON.com for complete warranty details.

⁴ 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.



80kW¹ Standby Generator Natural Gas

Engine Specifications

Engine	
Manufacturer	PSI
Type	5.7L Industrial Powertrain 4 Cycle, Turbocharged
Speed (RPM)	1800
Cylinder Arrangement	V8
Displacement (L)	5.7
Bore & Stroke (in / mm)	4.00 x 3.48 / 101.6 x 88.4
Compression Ratio	9.4:1
Governor Type	Electronic
Frequency Regulation Steady State	+/- 0.5%
Frequency Regulation No-load to Full-load	Isochronous
Air Filter Type	Dry
Limited Warranty ³	3 Years Parts, Labor and Travel
Lubrication System	
Type	Full Pressure
Oil Capacity (qt / L)	5.0 / 4.7
Oil Filter (Quantity / Type)	1 / Cartridge
Cooling System	
Heat Rejected to Cooling Water at Rated Load (BTU/min / kcal/sec)	3525 / 14.8
Water Pump Type	Centrifugal
Sound Rating at 7 Meters	
No Load	79 dB(A) ²
Air Induction System	
Combustion Air (cfm / m ³ /min)	244 / 6.9

Electrical System			
Ignition System			HVS Distributor
Battery Quantity			1
Battery Voltage (VDC)			12
Battery CCA (A)			630
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)			787 / 22
Exhaust Temperature at Rated Load (°F / °C)			1350 / 732
Maximum Allowable Back Pressure (in Hg / kPa)			3.0 / 10.2
Fuel System			
Fuel Type			Natural Gas
Fuel Supply Line Inlet			1-1/4 NPT
Recommended Fuel, Lower Heating Value Minimum (BTU/ft³ / MJ/m³)			904 / 34.3
Fuel Supply Pressure (in H₂O / mbar)			7-11 / 17-28
Fuel Consumption ⁴			
	Full Load	1/2 Load	No Load
BTU/hr	1,259,000	732,000	267,000
ft³/hr	1,259	732	267

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

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

³ See operator's manual or BRIGGSandSTRATTON.com for complete warranty details.

⁴ Fuel consumption rates are estimated based on normal operating conditions. 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 Features

Weights & Dimensions

Assembled Weight (lbs / kg)	2590 / 1175
Overall Dimensions (in / mm)	110 x 40 x 60 / 2794 x 1016 x 1524
Packaged Weight (lbs / kg)	2760 / 1252
Packaged Dimensions (in / mm)	120 x 43 x 67 / 3048 x 1092 x 1702

Controller Features

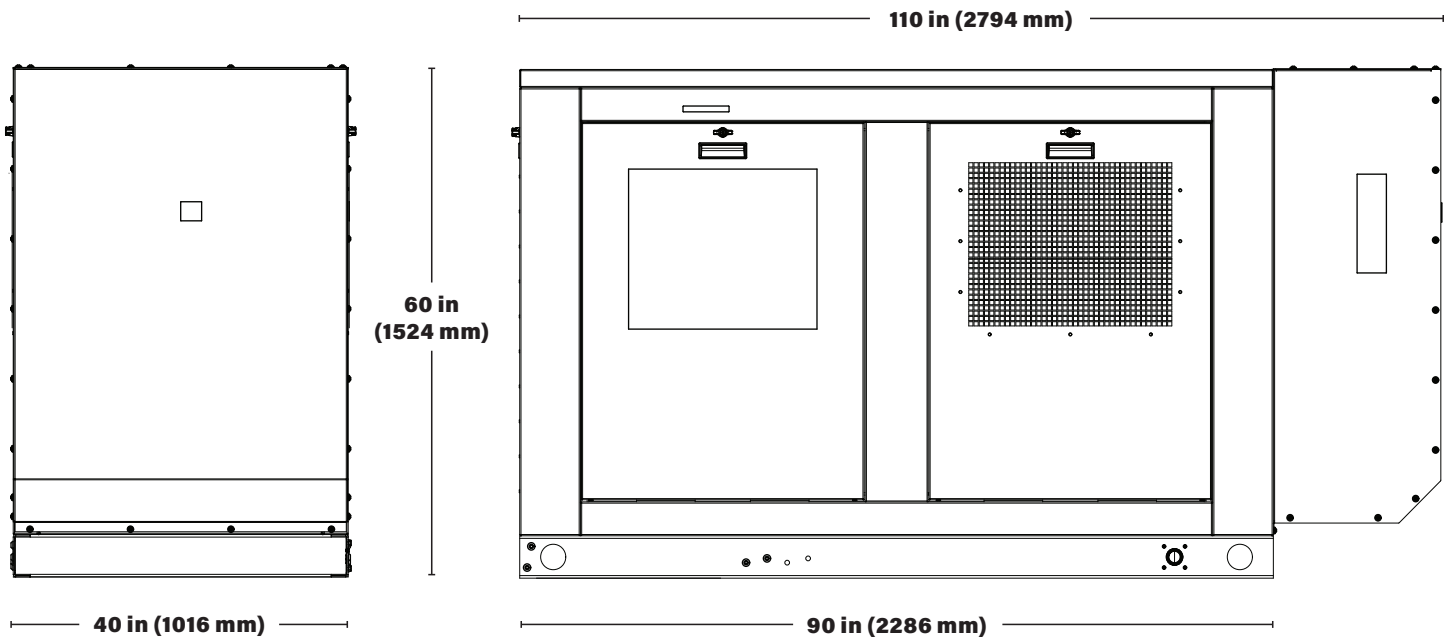
- Heated display option
- True 3 Phase generator sensing
- Power monitoring (kW, kVA, kVAR)
- Remote communication (RS232 & RS485) provides secure and simple off site monitoring. All ports are continuously active.
- Configurable inputs/outputs
- CAN sensing
- Configurable display languages
- Power save mode
- Flexible sender inputs
- DSE Configuration Suite PC Software

Available Accessories

6335	Battery Cable Lockout
6343	Battery Warmer
6350	Engine Communication Cable
6360	Emergency Stop Switch, NEMA 4X
6361	Emergency Stop Switch, with Cover
6428	Controller Communication Cable, USB-A to USB-B
6463	Battery Charger, DSE 9461-02
6464	Communication Interface, DSE 890-01

Other Features

- Battery rack and cables
- Electronic, isochronous governor
- Battery included
- 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
- Operation and installation literature²
- Galvanneal enclosure



¹ 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).

² 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
Model	080080	080081	080082	080083	080084
Alternator Model	80BSPP-0A	80TBSPP-2A	80TBSPP-2A	80TBSPP-2A	80TBSPP-1A
Manufacturer	Coliseum	Coliseum	Coliseum	Coliseum	Coliseum
Type	Brushless, 4-Lead	Brushless, 12-Lead	Brushless, 12-Lead	Brushless, 12-Lead	Brushless, 12-Lead
Frequency (Hz)	60	60	60	60	60
Phase	1	3	3	3	3
Alternator Configuration	-	Wye	Delta	Wye	Wye
Exciter Type	Auxiliary Winding	Auxiliary Winding	Auxiliary Winding	Auxiliary Winding	Auxiliary Winding
Number of Poles	4	4	4	4	4
Voltage Regulator	Analog, 1-Phase Sensing	Analog, 1-Phase Sensing	Analog, 1-Phase Sensing	Analog, 1-Phase Sensing	Analog, 1-Phase Sensing
Insulation Rating	Class H	Class H	Class H	Class H	Class H
Designed Temperature Rise Limit	125°C	125°C	125°C	125°C	125°C
Bearing (Quantity / Type)	1 / Sealed	1 / Sealed	1 / Sealed	1 / Sealed	1 / Sealed
Coupling	Flexible Disk	Flexible Disk	Flexible Disk	Flexible Disk	Flexible Disk
Amortisseur Windings	Full	Full	Full	Full	Full
Voltage Regulation, NL to FL	+/- 1.0%	+/- 1.0%	+/- 1.0%	+/- 1.0%	+/- 1.0%
One Step Load Acceptance	100% of Rating	100% of Rating	100% of Rating	100% of Rating	100% of Rating
Total Harmonic Distortion (THD), NL to FL	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
<ul style="list-style-type: none"> Windings are insulated using the latest vacuum pressure impregnation technologies Superior voltage waveform from a two-thirds pitch stator Manufactured according to the following standards: UL1004, NEMA MG1, IEC 60034-1 					

Support every step of the way

Need help? Visit 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.

This standby generator is not for prime power applications.

BS1180 - 10/18

BRIGGS & STRATTON CORPORATION
POST OFFICE BOX 702
MILWAUKEE, WI 53201 USA

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