

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.



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
- Sound attenuated enclosures for reduced noise output
- Marinco 6A battery charger
- DSE 7310 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
080000	120 / 240	1.0	1	60	80 / 80	333	400	3 Year
080001	120 / 208	0.8	3	60	80 / 100	277	300	3 Year
080002	120 / 240	0.8	3	60	80 / 100	240	300	3 Year
080003	277 / 480	0.8	3	60	80 / 100	120	150	3 Year
080004	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.



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 Warranty³	3 Years Parts, Labor and Travel
Lubrication System	
Type	Full Pressure
Oil Capacity (qt / L)	5.0 / 4.7
Oil Filter (Quantity / Type)	1 / Spin-On
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, Lowest Side	
No Load	79 dB(A) ²
Air Induction System	
Combustion Air (cfm / m³/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

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 / 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	1,190,000	780,000	370,000
ft³/hr	1,190	780	370
m³/hr	33.7	22.1	10.5

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

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² No-load measurement, 7 meters from enclosure alternator end. 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 at 1/2 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

Sound Enclosure

- Sound level ratings with no load: 79 dB(A)²
- Sound attenuating enclosure uses acoustic insulation that meets UL 94 HF1 flammability classification and repels moisture absorption
- Lockable, stainless steel door latches
- Critical grade silencer
- Steel enclosure standard with hinged doors

Weight & Dimensions

Assembled Weight (lbs / kg)	2500 / 1134
Overall Dimensions (in / mm)	120 x 52 x 86 / 3048 x 1321 x 2184
Packaged Weight (lbs / kg)	2670 / 1211
Packaged Dimensions (in / mm)	127 x 58 x 92 / 3226 x 1473 x 2337

Controller Features

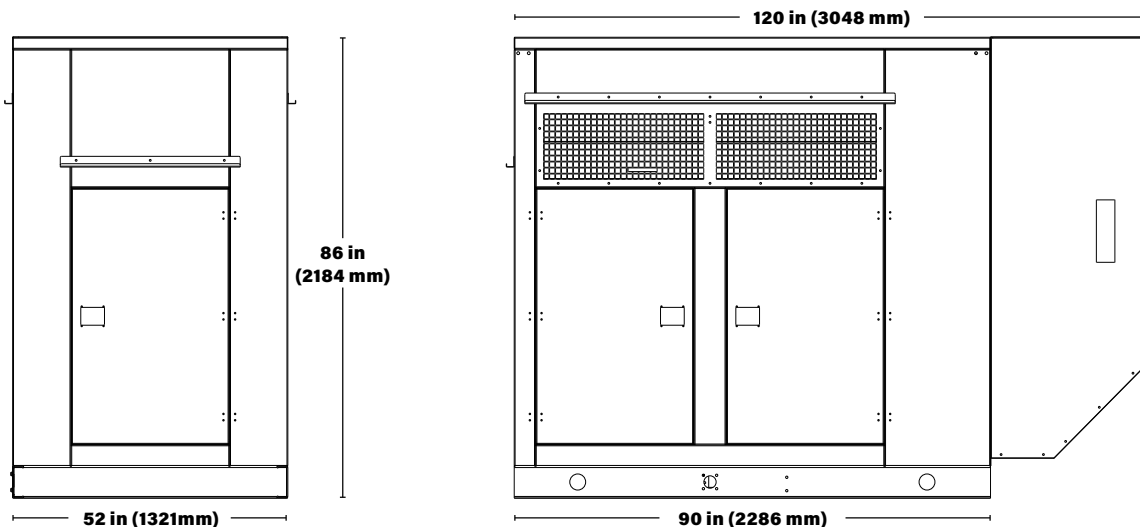
- Heated display option
- True 3 Phase generator sensing
- Power monitoring (kW, kVA, kVAR)
- Remote communication (RS232 & RS485) provides secure and simple off site monitoring. All ports are continuously active
- Configurable inputs/outputs (9/8)
- CANBus speed sensing
- Configurable display languages
- Power save mode
- Integral PLC editor
- Flexible sender inputs
- DSE Configuration Suite PC Software
- Configurable event log (250)
- Load switching, load shedding & dummy load outputs

Other Features

- Alternator protection
- 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
- Operation and installation literature³
- Galvanneal enclosure

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
6465	Remote Annunciator, DSE 2548-01
6466	Remote Display, DSE 2510-32
6468	Remote Annunciator Kit, DSE 2548-01
6469	Silencer, Super Critical Grade
6472	AVR Communication Cable



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³ 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	080000	080001	080002	080003	080004
Alternator Model	ECP34-2S/4	ECP34-2S/4	ECP34-2S/4	ECP34-2S/4	ECP34-1S/4
Manufacturer	Mecc Alte	Mecc Alte	Mecc Alte	Mecc Alte	Mecc Alte
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	Digital, 1-Phase Sensing	Digital, 1-Phase Sensing	Digital, 1-Phase Sensing	Digital, 1-Phase Sensing	Digital, 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
Sustained Short-Circuit Current	300% of Rated Current for 20 Seconds	300% of Rated Current for 20 Seconds	300% of Rated Current for 20 Seconds	300% of Rated Current for 20 Seconds	300% of rated current for 20 seconds
Total Harmonic Distortion (THD), NL to FL	< 4.5	< 3.5	< 3.5	< 3.5	< 3.5

- Windings are insulated using the latest vacuum pressure impregnation technologies
- Superior voltage waveform from a two-thirds pitch stator and skewed main stator
- Fully programmable digital AVR with alarm memory
- 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.

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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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