



**STANDBY
POWER**

150kW¹ STANDBY GENERATOR

208-480 V NATURAL GAS



BRIGGS & STRATTON® THE SMART CHOICE

For the discerning business owner that is looking for the smartest, most reliable permanent backup power solution.



Standard Features

- cUL 2200 Listed
- Rugged seven-gauge steel base and protected by an enclosure made from Galvannealed Steel
- Generators are powered by EPA Certified 1800 RPM industrial grade PSI engine
- Sound attenuated enclosures for reduced noise output
- Marinco 6A Battery Charger
- DSE 7310 MKII Controller



GENERATOR SET RATINGS

BRIGGS & STRATTON MODEL	ALTERNATOR MODEL	VOLTAGE	PHASE	HZ	NATURAL GAS 125°C STANDBY RATING		STANDARD WARRANTY ²
					kW / kVA	AMPS	PARTS, LABOR, TRAVEL
080021	EC038-1SN/4	120/208	3	60	137 / 171	520	3 Year
080022	EC038-1SN/4	120/240	3	60	137 / 171	451	
080023	EC038-1SN/4	277/480	3	60	150 / 188	225	

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). All units are rated at a 0.8 power factor.

² Warranty details available at www.briggsandstratton.com



ENGINE SPECIFICATIONS

ENGINE	
Manufacturer	PSI
Aspiration	Turbocharged
Model Type	8.8L, Industrial Powertrain, 4-Cycle
Speed (RPM)	1800
Cylinder Arrangement	V8
Displacement (L / ci)	8.8 / 537
Bore & Stroke (mm / in)	110.5 x 114.3 / 4.35 x 4.5
Compression Ratio	10:1:1
Governor Type	Electronic
Frequency Regulation Steady State	+/- 0.5%
Frequency Regulation No-load to Full-load	Isochronous
Air Filter Type	Dry
LUBRICATION SYSTEM	
Type	Full Pressure
Oil Capacity (L / qt)	7.5 / 8
Oil Filter (Quantity / Type)	1 / Cartridge
COOLING SYSTEM	
Heat Rejected to Cooling Water at Rated Load (kcal/sec / Btu/min)	21.1 / 5021
Water Pump Type	Centrifugal

ELECTRICAL SYSTEM	
Ignition System	Individual Ignition Coil
Battery Quantity	1
Battery Voltage (VDC)	12
Battery CCA (A)	925
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 (m ³ /min / cfm)	33.3 / 1177.5
Exhaust Temperature at Rated Load (°C / °F)	732 / 1350
Maximum Allowable Back Pressure, (kPa / in Hg)	10.2 / 3.0

FUEL SYSTEM	
Fuel Type	Natural Gas
Fuel Supply Line Inlet	1 1/2 NPT
Recommended Fuel, Lower Heating Value Minimum (MJ/m ³ / Btu/ft ³)	33.2 / 890
Fuel Supply Pressure (mbar / in H ₂ O)	17-28 / 7-11

FUEL CONSUMPTION			
	Full Load	1/2 Load	No Load
BTU/hr	1,970,000	1,105,000	290,000
ft ³ /hr	1,970	1,105	290
m ³ /hr	55.8	31.3	8.2

ENGINE OUTPUT DERATINGS - STANDBY	
Rated Temperature (°C / °F)	25 / 77
Rated Altitude (m / ft)	366 / 1200
Temperature Derate	1.5% for each 5.6°C (10°F) above rated temperature
Altitude Derate	2.5 for each 305m (1000ft) above rated altitude

SOUND RATING AT 7 METERS, LOWEST SIDE	
No Load	77 dB(A)

AIR INDUCTION SYSTEM	
Combustion Air (m ³ /min / cfm)	10.3 / 3646

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ADDITIONAL STANDARD FEATURES

AVAILABLE ACCESSORIES

6463	Battery Charger, NFPA 110 Compliant, DSE 9461-02
6468	Remote Annunciator Kit NFPA 110 Compliant, DSE 2548-01
6465	Remote Annunciator, DSE 2548-01
6466	Remote Display, DSE 2510-32
6464	Communication Interface, DSE 890-01
6360	Emergency Stop Switch, NFPA 110 Compliant, NEMA 4X
6361	Emergency Stop Switch, NFPA 110 Compliant, With Cover
6428	Controller Communication Cable, USB-A to USB-B
6335	Battery Cable Lockout, NFPA 110 Compliant
6350	Engine Communication Cable
6469	Silencer, Super Critical Grade
6470	Silencer, Hospital Grade

OTHER FEATURES

- 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
- Battery Included
- Block Heater Included
- Operation and Installation Literature²

SOUND ENCLOSURES

- Sound level ratings with no load: 77 dB(A)*
- Sound attenuating enclosure uses acoustic insulation that meets UL 94 HF1 flammability classification and repels moisture absorption
- Lockable, flush-mounted door latches
- Air inlet and outlet discharge with 90 degree bends to redirect air and reduce noise
- Internal-mounted critical silencer and flexible exhaust connector
- Steel enclosure standard with hinged doors

WEIGHT & DIMENSIONS

Assembled Weight (lbs)	5380
Overall Dimensions (in)	135 x 52 x 86
Packaged Weight (lbs)	5630
Packaged Dimensions (in)	150 x 60 x 92

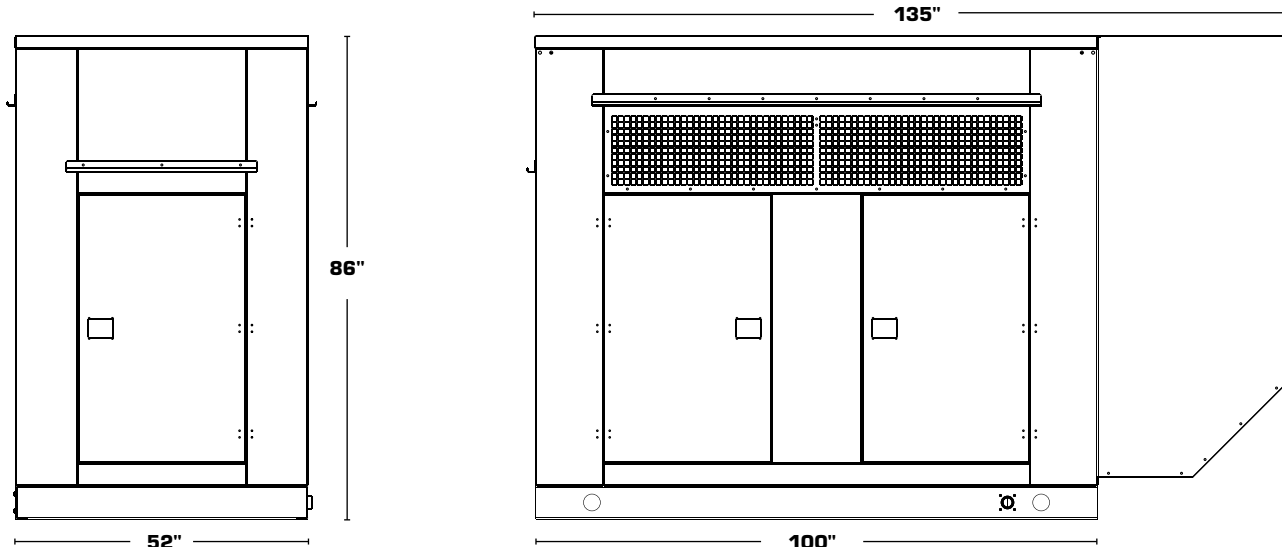
CONTROLLER FEATURES

- Heated display option
- True 3 Phase generator sensing
- Power monitoring
- Remote communications (RS232 & RS485) provides secure and simple off site monitoring. All ports are continuously active
- Configurable inputs/outputs (9/8)
- CAN 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

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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 business and home.

* Sound measured at 7M. Sound levels at various points around generator may be higher depending on installation parameters.

**ALTERNATOR SPECIFICATIONS**

Manufacturer	Mecc Alte
Type	4-Pole, Rotating-Field
Exciter Type	Brushless, Auxiliary Winding
Voltage Regulator	Digital, Volts/Hz
Insulation Rating	Class H
Designed Temperature Rise Limit	125°C
Bearing (Quantity / Type)	1 / Sealed
Coupling	Flexible Disk
Amortisseur Windings	Full
Voltage Regulation, NL to FL	+/- 1.0%
One Step Load Acceptance	100% of Rating
Total Harmonic Distortion	3.1%

- 12 - Wire reconnectable starter.
- Windings are insulated using the latest vacuum pressure impregnation technologies.
- 2/3rds winding pitch to eliminate triplen harmonics with the voltage waveform.
- Fully programmable digital AVR with alarm memory.
- Manufactured according to the following standards: UL1004, NEMA MG1, IEC 60034-1.
- > 300% sustained short circuit current for up to 20 seconds.

**SUPPORT EVERY STEP
OF THE WAY****NEED HELP? Just call 800-759-2744**

Our technical support team is trained to answer questions on our generators, transfer switches and accessories.

**FOR MORE INFORMATION
PLEASE CONTACT
YOUR LOCAL BRIGGS &
STRATTON DEALER.**

To find a dealer visit www.briggsandstratton.com

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