



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

- UL 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
- High performance, durable alternator
- Industry leading 3 year standard limited warranty. 3 years parts, labor and travel²



GENERATOR SET RATINGS

				NATURAL GAS 125°C STANDBY RATING		LIMITED WARRANTY ²	
BRIGGS & STRATTON MODEL	ALTERNATOR MODEL	VOLTAGE	PHASE	HZ	kW / kVA	AMPS	PARTS, LABOR, TRAVEL
080021	EC038 - 1LN/4	120/208	3	60	150 / 188	520	
080022	EC038 - 1LN/4	120/240	3	60	150 / 188	451	D. V
080023	EC038 - 1LN/4	277/480	3	60	150 / 188	225	3 Year
080020	EC038 - 1LN/4	120/240	1	60	150 / 188	625	

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 / 535	
Bore & Stroke (mm / in)	110.5 x 114.3 / 4.35 x 4.5	
Compression Ratio	10:1:1	
Rated HP	261	
Governor Type	Electronic	
Frequency Regulation Steady State	+/- 0.5%	
Frequency Regulation No-load to Full-load	Isochronous	
Air Filter Type	Dry	
LUBRICATION SYSTEM		
Туре	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	ı		1	
Battery Voltage	(VDC)		12	
Battery CCA (A)			925	
Battery Charging	g Alternator			
Ground (Negat	tive/Positive)		Negative	
Voltage (VDC)			12	
Amperage (A)			70	
Starter Motor V	oltage (VDC)		12	
	EXHAUST	SYSTEM		
Exhaust Manifold	d Type		Dry	
Exhaust Flow at	Rated Load (m³/mi	n / cfm)	33.34 / 1775	
Exhaust Tempera	ature at Rated Load	(°C / °F)	732 / 1350	
Maximum Allowa	ble Back Pressure,	(kPa / in Hg)	10.2 / 3.0	
	FUEL S	YSTEM		
Fuel Type			Natural Gas	
Fuel Supply Line	Inlet		1 1/2 NPT	
Recommended Fu (MJ/m³ / Btu/ft ³	uel, Lower Heating '	Value Minimum	34.3 / 904	
Fuel Supply Pres	sure (mbar / in H2	0)	17-27 / 7-11	
	FUEL CONS	SUMPTION		
	Full Load	1/2 Load	No Load	
BTU/hr	1,965,000	1,102,000	282,000	
ft³/hr	1,965	1,102	282	
m³/hr	55.64	31.21	7.99	
ENG	INE OUTPUT DEF	RATINGS - STAN	IDBY	
Rated Temperati	ıre (°C / °F)		25 / 77	
Rated Altitude (ft / m)			1200 / 366	
Temperature Der	ate		1.5% for each	
			5.6°C (10°F) above rated temperature	
Altitude Derate			2.5% for each 305m (1000ft) above rated altitude	
SOUNI	D RATING AT 7 N	IETERS, LOWES	ST SIDE	
No Load			77 dB(A)	
	AIR INDUCTI	ON SYSTEM		
Combustion Air (m³/min / cfm)		10.33 / 364.6	

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ADDITIONAL STANDARD FEATURES

	AVAILABLE ACCESSORIES
6335	Battery Cable Lockout, NFPA 110 Compliant
6463	Battery Charger, NFPA 110 Compliant, DSE 9461-02
6464	Communication Interface, DSE 890-01
6428	Controller Communication Cable, USB-A to USB-B
6360	Emergency Stop Switch, NFPA 110 Compliant, NEMA 4X without cover
6361	Emergency Stop Switch, NFPA 110 Compliant, With Cover
6350	Engine Communication Cable
6465	Remote Annunciator, DSE 2548-01
6466	Remote Display, DSE 2510-32
6470	Silencer, Hospital Grade
6469	Silencer, Super Critical 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 skidmounted 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)	5563	
Packaged Dimensions (in)	144 x 58 x 86	

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

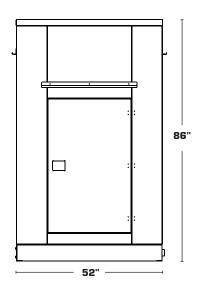
- Configurable display languages
- Power save mode
- Integral PLC editor
- Flexible sender inputs
- DSE Configuration Suite PC Software
- Configurable event log (250)
- Load switching, load shedding & dummy load outputs

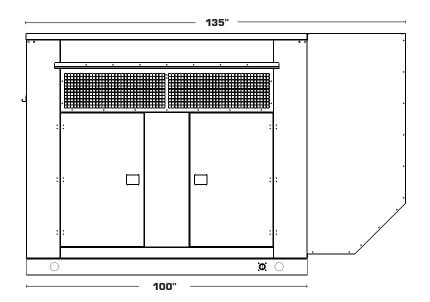
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² The installation manual contains specific instructions related to generator placement in addition to NFPA 37, including the requirement that carbon monoxide detectors be installed and maintained in your business and home.

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







ALTERNATOR SPECIFICATIONS			
	1 Phase	3 Phase	
Manufacturer	Mecc Alte	Mecc Alte	
Туре	4-Pole, Rotating-Field	4-Pole, Rotating-Field	
Exciter Type	Brushless, Auxiliary Winding	Brushless, Auxiliary Winding	
Voltage Regulator	Digital - Phase Sensing	Digital - Phase Sensing	
Insulation Rating	Class H	Class H	
Designed Temperature Rise Limit	125°C	125°C	
Bearing (Quantity / Type)	1 / Sealed	1 / Sealed	
Coupling	Flexible Disk	Flexible Disk	
Amortisseur Windings	Full	Full	
Voltage Regulation, NL to FL	+/- 1.0%	+/- 1.0%	
One Step Load Acceptance	100% of Rating	100% of Rating	
Total Harmonic Distortion	< 4.5%	< 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.



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Disclaimer: Not for Prime Power or use where standby systems are legally required, for serious life safety or health hazards, or where lack of power hampers rescue of fire-fighting operations.

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