



**STANDBY  
POWER**

# SYNERGY ELECTRIC INC.

## 200kW<sup>1</sup> 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
- Marinc0 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 <sup>2</sup>
					kW / kVA	AMPS	
080026	EC038-3SN/4	120/208	3	60	200 / 250	694	3 Year
080027	EC038-3SN/4	120/240	3	60	200 / 250	601	
080028	EC038-3SN/4	277/480	3	60	200 / 250	300	

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

<sup>2</sup> Warranty details available at [www.briggsandstratton.com](http://www.briggsandstratton.com)

**ENGINE SPECIFICATIONS**

ENGINE	
<b>Manufacturer</b>	PSI
<b>Aspiration</b>	Turbocharged
<b>Model Type</b>	11.1L, Industrial Powertrain, 4-Cycle
<b>Speed (RPM)</b>	1800
<b>Cylinder Arrangement</b>	Inline 6
<b>Displacement (L / ci)</b>	11.1 / 6.73
<b>Bore &amp; Stroke (mm / in)</b>	123 x 155 / 434 x 161
<b>Compression Ratio</b>	10:5:1
<b>Governor Type</b>	Electronic
<b>Frequency Regulation Steady State</b>	+/- 0.5%
<b>Frequency Regulation No-load to Full-load</b>	Isochronous
<b>Air Filter Type</b>	Dry
LUBRICATION SYSTEM	
<b>Type</b>	Full Pressure
<b>Oil Capacity (L / qt)</b>	4.7 / 5
<b>Oil Filter (Quantity / Type)</b>	1 / Cartridge
COOLING SYSTEM	
<b>Heat Rejected to Cooling Water at Rated Load (kcal/sec / Btu/min)</b>	21.1 / 5021
<b>Water Pump Type</b>	Centrifugals

ELECTRICAL SYSTEM	
<b>Ignition System</b>	Individual Ignition Coil
<b>Battery Quantity</b>	2
<b>Battery Voltage (VDC)</b>	24
<b>Battery CCA (A)</b>	925
Battery Charging Alternator	
<b>Ground (Negative/Positive)</b>	Negative
<b>Voltage (VDC)</b>	24
<b>Amperage (A)</b>	45
<b>Starter Motor Voltage (VDC)</b>	925

EXHAUST SYSTEM	
<b>Exhaust Manifold Type</b>	Wet
<b>Exhaust Flow at Rated Load (m<sup>3</sup>/min / cfm)</b>	34.3 / 1211
<b>Exhaust Temperature at Rated Load (°C / °F)</b>	600 / 1112
<b>Maximum Allowable Back Pressure (kpu / in Hg)</b>	10.2 / 3.0

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

FUEL CONSUMPTION			
	Full Load	1/2 Load	No Load
<b>BTU/hr</b>	2,120,000	1,650,000	1,160,000
<b>ft<sup>3</sup>/hr</b>	2,120	1,680	1,160
<b>m<sup>3</sup>/hr</b>	60.0	46.7	32.8

ENGINE OUTPUT DERATINGS - STANDBY	
<b>Rated Temp</b>	77°F / 25°C
<b>Temperature Derate</b>	1.5% for each 5.6°C (10°F) above rated temp
<b>Altitude Derate</b>	2.5% for each 305m (1000ft) above rated altitude

SOUND RATING AT 7 METERS, LOWEST SIDE	
<b>No Load</b>	72 dB(A)

AIR INDUCTION SYSTEM	
<b>Combustion Air (m<sup>3</sup>/min / cfm)</b>	10.3 / 3646

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**ADDITIONAL STANDARD FEATURES**

**AVAILABLE ACCESSORIES**

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

**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
- Local Emergency Stop Switch
- Oil Drain Extension
- Operation and Installation Literature<sup>2</sup>
- Steel Sound Enclosure

**SOUND ENCLOSURES**

- Sound level compared to competitor ratings with no load: 79 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**

<b>Assembled Weight (lbs)</b>	9325
<b>Overall Dimensions (in)</b>	162 x 60 x 96
<b>Packaged Weight (lbs)</b>	9625
<b>Packaged Dimensions (in)</b>	175 x 68 x 102

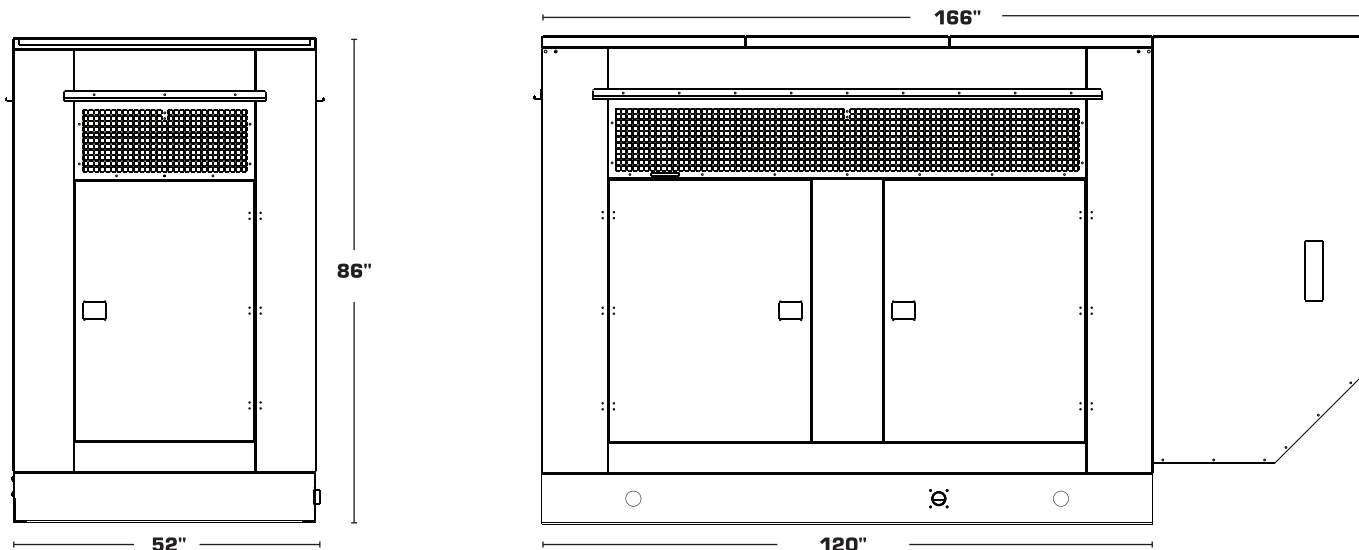
**CONTROLLER FEATURES**

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

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



### ALTERNATOR SPECIFICATIONS

<b>Manufacturer</b>	Mecc Alte
<b>Type</b>	4-Pole, Rotating-Field
<b>Exciter Type</b>	Brushless, Auxiliary Winding
<b>Voltage Regulator</b>	Digital, Volts/Hz
<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</b>	< 3%

- 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.

# SYNERGY ELECTRIC INC.

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**CALL TODAY FOR A FREE  
ON-SITE ESTIMATE!  
978.537.9473**

**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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Briggs & Stratton Corp. reserves the right to make changes in specifications and features shown herein, or discontinue the product described at any time without notice or obligation.