

# 125kW<sup>1</sup> Standby Generator



## Briggs & Stratton<sup>®</sup> 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
- Marincio 6A battery charger
- DSE 7310 MKII controller
- High performance, durable alternator
- Industry leading 3 year standard limited warranty, 3 years parts, labor and travel<sup>3</sup>



### Generator Set Ratings

Model	Alternator Model	Voltage	Phase <sup>2</sup>	Hz	Breaker	Liquid Propane Vapor (LPV) 125°C Standby Rating		Limited Warranty <sup>3</sup>
						kW <sup>1</sup> / kVA	Amps	Parts, Labor, Travel
080015	ECO38-1LN/4	120/240	1	60	600	125/125	521	3 Year
080016	ECO38-1SN/4	120/208	3	60	500	125/156	434	3 Year
080017	ECO38-1SN/4	120/240	3	60	450	125/156	376	3 Year
080018	ECO38-1SN/4	277/480	3	60	225	125/156	188	3 Year
080019	ECP34-3L4	347/600	3	60	175	125/156	150	3 Year

<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 (motor and generators).

<sup>2</sup> Single phase units are rated at 1.0 power factor and three phase units are rated at 0.8 power factor.

<sup>3</sup> Warranty details available at [www.briggsandstratton.com](http://www.briggsandstratton.com)



**Engine Specifications**

Engine	
<b>Manufacturer</b>	PSI
<b>Aspiration</b>	Turbo Charge Air Cooled
<b>Model Type</b>	8.8L, Industrial Powertrain, 4-Cycle
<b>Speed (RPM)</b>	1800
<b>Cylinder Arrangement</b>	V8
<b>Displacement (ci / L)</b>	535 / 8.8
<b>Bore &amp; Stroke (in / mm)</b>	4.35 x 4.5 / 110.5 x 114.3
<b>Compression Ratio</b>	10:1:1
<b>Rated HP</b>	230
<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
<b>Warranty</b>	3 Year
Lubrication System	
<b>Type</b>	Full Pressure
<b>Oil Capacity (qt / L)</b>	8 / 7.6
<b>Oil Filter (Quantity / Type)</b>	1 / Cartridge
Cooling System	
<b>Heat Rejected to Cooling Water at Rated Load (BTU/min / kcal/sec)</b>	5021 / 21.1
<b>Water Pump Type</b>	Centrifugal

Electrical System	
<b>Ignition System</b>	Individual Ignition Coil
<b>Battery Quantity</b>	1
<b>Battery Voltage (VDC)</b>	12
<b>Battery CCA (A)</b>	925
Battery Charging Alternator	
<b>Ground (Negative/Positive)</b>	Negative
<b>Voltage (VDC)</b>	12
<b>Amperage (A)</b>	70
<b>Starter Motor Voltage (VDC)</b>	12

Exhaust System	
<b>Exhaust Manifold Type</b>	Dry
<b>Exhaust Flow at Rated Load (cfm / m<sup>3</sup>/min)</b>	1177.5 / 33.34
<b>Exhaust Temperature at Rated Load (°F / °C)</b>	1350 / 732
<b>Maximum Allowable Back Pressure, (in Hg / kPa)</b>	3.0 / 10.2

Fuel System	
<b>Fuel Type</b>	Liquid Propane Vapor
<b>Fuel Supply Line Inlet</b>	1 1/2 NPT
<b>Recommended Fuel, Lower Heating Value Minimum (BTU/ft<sup>3</sup> / MJ/m<sup>3</sup>)</b>	2338 / 87.1
<b>Fuel Supply Pressure (in H<sub>2</sub>O / mbar)</b>	7-11 / 17-27

	Fuel Consumption		
	Full Load	1/2 Load	No Load
<b>BTU/hr</b>	1,782,500	997,500	410,000
<b>ft<sup>3</sup>/hr</b>	713	399	164
<b>m<sup>3</sup>/hr</b>	20.19	11.30	4.64
<b>gal/hr</b>	19.59	10.96	4.51

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

Sound Rating at 7 Meters, Lowest Side	
<b>No Load</b>	77 dB(A)

Air Induction System	
<b>Combustion Air (cfm / m<sup>3</sup>/min)</b>	364.6 / 10.33

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**Additional Standard Features**

**Sound Enclosures**

- Sound level ratings with no load: 77 dB(A)<sup>2</sup>
- 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 / kg)</b>	5380 / 2440
<b>Overall Dimensions (in / mm)</b>	135 x 52 x 86 / 3429 x 1321 x 2184
<b>Packaged Weight (lbs / kg)</b>	5563 / 2523
<b>Packaged Dimensions (in / mm)</b>	144 x 58 x 92 / 3658 x 1473 x 2337

**Controller Features**

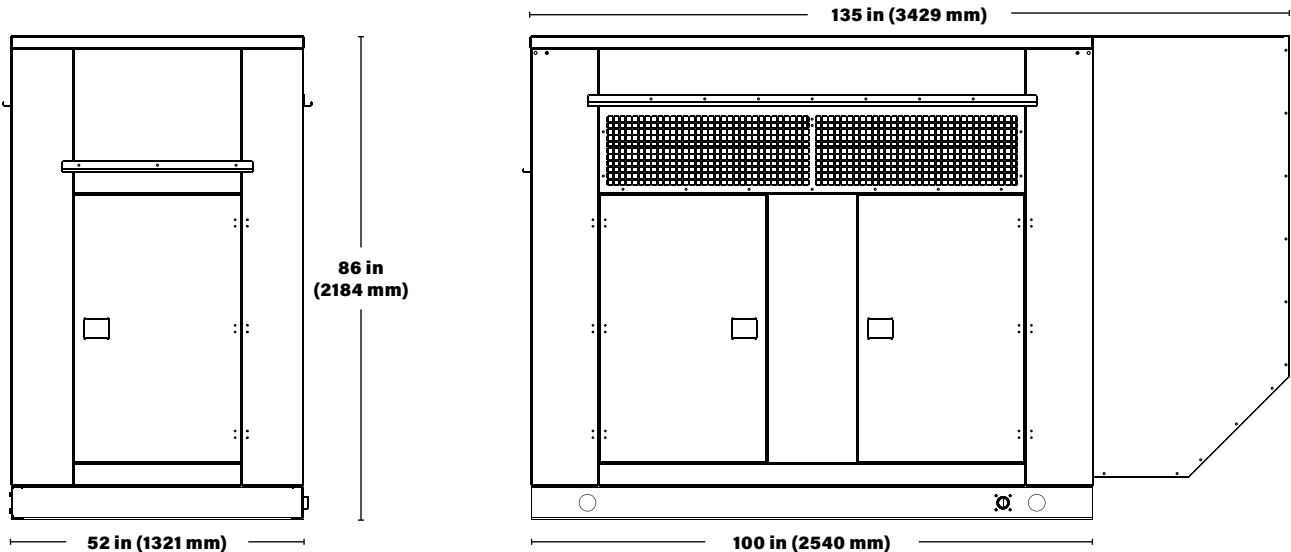
- Heated display option
- True 3 Phase generator sensing
- Power monitoring
- Remote communications (RS232 & RS485) provides secure and simple off site monitoring. All ports are continuously active
- Configurable inputs/outputs (9/8)
- CAN speed sensing
- Configurable display languages
- Power save mode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

**Available Accessories**

<b>6335</b>	Battery Cable Lockout, NFPA 110 Compliant
<b>6463</b>	Battery Charger, NFPA 110 Compliant, DSE 9461-02
<b>6464</b>	Communication Interface, DSE 890-01
<b>6428</b>	Controller Communication Cable, USB-A to USB-B
<b>6360</b>	Emergency Stop Switch, NFPA 110 Compliant, NEMA 4X without cover
<b>6361</b>	Emergency Stop Switch, NFPA 110 Compliant, With Cover
<b>6350</b>	Engine Communication Cable
<b>6465</b>	Remote Annunciator, DSE 2548-01
<b>6466</b>	Remote Display, DSE 2510-32
<b>6470</b>	Silencer, Hospital Grade
<b>6469</b>	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 skid-mounted fuel system components)
- Integral Vibration Isolation
- Battery Included
- Block Heater Included
- Operation and Installation Literature<sup>3</sup>
- Galvanneal Enclosure



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<sup>2</sup> Sound measured at 7M. Sound levels at various points around generator may be higher depending on installation parameters.

<sup>3</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.



### Alternator Specifications

	1 Phase	3 Phase	3 Phase	3 Phase	3 Phase
<b>Model</b>	080015	080016	080017	080018	080019
<b>Alternator Model</b>	ECO38-1LN/4	ECO38-1SN/4	ECO38-1SN/4	ECO38-1SN/4	ECP34-3L4
<b>Manufacturer</b>	Mecc Alte	Mecc Alte	Mecc Alte	Mecc Alte	Mecc Alte
<b>Type</b>	Brushless, 4-Lead	Brushless, 12-Lead	Brushless, 12-Lead	Brushless, 12-Lead	Brushless, 12-Lead
<b>Frequency (Hz)</b>	60	60	60	60	60
<b>Phase</b>	1	3	3	3	3
<b>Exciter Type</b>	Auxiliary Winding	Auxiliary Winding	Auxiliary Winding	Auxiliary Winding	Auxiliary Winding
<b>Number of Poles</b>	4	4	4	4	4
<b>Voltage Regulator</b>	Digital, 1-phase sensing	Digital, 1-phase sensing	Digital, 1-phase sensing	Digital, 1-phase sensing	Digital, 1-phase sensing
<b>Insulation Rating</b>	Class H	Class H	Class H	Class H	Class H
<b>Designed Temperature Rise Limit</b>	125°C	125°C	125°C	125°C	125°C
<b>Bearing (Quantity / Type)</b>	1 / Sealed	1 / Sealed	1 / Sealed	1 / Sealed	1 / Sealed
<b>Coupling</b>	Flexible Disk	Flexible Disk	Flexible Disk	Flexible Disk	Flexible Disk
<b>Amortisseur Windings</b>	Full	Full	Full	Full	Full
<b>Voltage Regulation, NL to FL</b>	+/- 1.0%	+/- 1.0%	+/- 1.0%	+/- 1.0%	+/- 1.0%
<b>One Step Load Acceptance</b>	100% of Rating	100% of Rating	100% of Rating	100% of Rating	100% of Rating
<b>Sustained Short-Circuit Current</b>	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
<b>Total Harmonic Distortion (THD), NL to FL</b>	< 4.5	< 3.5	< 3.5	< 3.5	< 3.5

- 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

## 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.

**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.

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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