



## Briggs & Stratton® The Smart Choice

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



Parts • Labor • Travel  
Limited  
Warranty

### Standard Features

- UL 2200 Listed
- Rugged seven-gauge steel base and protected by an enclosure made from Galvannealed Steel
- Sound attenuated enclosure for reduced noise output
- Generator is powered by EPA Certified 1800 RPM industrial grade PSI engine
- Marincos 6A battery charger
- DSE 7310 MKII controller



### Generator Set Rating

Model	Alternator Model	Voltage	Phase <sup>2</sup>	Hz	Breaker	Natural Gas 125°C Standby Rating		Limited Warranty <sup>3</sup>
						kW <sup>1</sup> / kVA	Amps	Parts, Labor, Travel
080010	ECP34-2L/4	120/240	1	60	500	100 / 125	417	3 Year
080011	ECP34-1L/4	120/208	3	60	400	100 / 125	347	3 Year
080012	ECP34-1L/4	120/240	3	60	350	100 / 125	301	3 Year
080013	ECP34-1L/4	277/480	3	60	175	100 / 125	150	3 Year
080014	ECP34-2S/4	347/600	3	60	150	100 / 125	120	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 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>	Turbocharged
<b>Model Type</b>	5.7, Industrial Powertrain, 4-Cycle
<b>Speed (RPM)</b>	1800
<b>Cylinder Arrangement</b>	V8
<b>Displacement (ci / L)</b>	350 (5.7)
<b>Bore &amp; Stroke (in / mm)</b>	4.00 x 3.48 / 101.6 x 88.4
<b>Compression Ratio</b>	9.4:1
<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 (qt / L)</b>	5.0 / 4.7
<b>Oil Filter (Quantity / Type)</b>	1 / Cartridge
Cooling System	
<b>Heat Rejected to Cooling Water at Rated Load (kcal/sec / BTU/min)</b>	17.2 / 4100
<b>Water Pump Type</b>	Centrifugal

Electrical System	
<b>Ignition System</b>	HVS Distributor
<b>Battery Quantity</b>	1
<b>Battery Voltage (VDC)</b>	12
<b>Battery CCA (A)</b>	630
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>	846 / 24
<b>Exhaust Temperature at Rated Load (°F / °C)</b>	1350 / 732
<b>Maximum Allowable Back Pressure (kPa / in Hg)</b>	10.2 / 3

Fuel System	
<b>Fuel Type</b>	Natural Gas
<b>Fuel Supply Line Inlet</b>	1 1/4 NPT
<b>Recommended Fuel, Lower Heating Value Minimum (BTU/ft<sup>3</sup> / MJ/m<sup>3</sup>)</b>	904 / 34.3
<b>Fuel Supply Pressure (in H<sub>2</sub>O / mbar)</b>	7-11 / 17-28

Fuel Consumption			
	Full Load	1/2 Load	No Load
<b>BTU/hr</b>	1,389,000	546,000	222,000
<b>ft<sup>3</sup>/hr</b>	1,389	546	222
<b>m<sup>3</sup>/hr</b>	39.3	15.5	6.3

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

Sound Rating at 7 Meters, Lowest Side	
<b>Full Load</b>	81 dB(A)

Air Induction System	
<b>Combustion Air (cfm / m<sup>3</sup>/min)</b>	262 / 7.42

<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).

**Additional Standard Features**

**Sound Enclosure**

- Sound level ratings with no load: 80 dB(A)\*
- 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**

<b>Assembled Weight (lbs / kg)</b>	4125 / 1871
<b>Overall Dimensions (in / mm)</b>	120 x 52 x 86 / 3048 x 1321 x 2184
<b>Packaged Weight (lbs / kg)</b>	4295 / 1948
<b>Packaged Dimensions (in / mm)</b>	127 x 58 x 92 / 3226 x 1473 x 2337

**Controller Features**

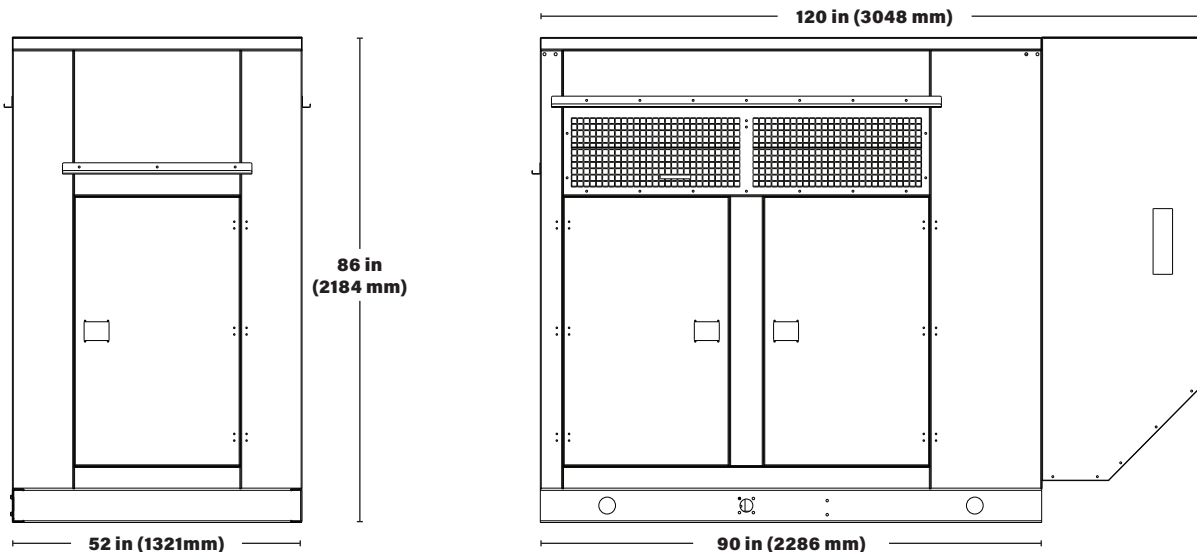
- Heated display
- True 3 Phase generator sensing
- Power monitoring (kW, kVA, kVAR)
- Remote communication (RS232 & RS485) provides secure and simple off site monitoring. All ports are continuously active
- Configurable inputs/outputs (9/8)
- CAN sensing
- Configurable display languages
- Power save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

**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
- Oil Drain Extension
- Operation and Installation Literature<sup>2</sup>



<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> 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	3 Phase	3 Phase	3 Phase
<b>Model</b>	080010	080011	080012	080013	080014
<b>Alternator Model</b>	ECP34-2L/4	ECP34-1L/4	ECP34-1L/4	ECP34-1L/4	ECP34-2S/4
<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
- Fully programmable digital AVR with alarm memory
- 2/3rds winding pitch to eliminate triplen harmonics with the voltage waveform
- Manufactured according to the following standards: UL1004, NEMA MG1, IEC 60034-1

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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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