



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 travel<sup>2</sup>



#### **GENERATOR SET RATINGS**

					NATURAL GAS 125°C STANDBY RATING		STANDARD LIMITED WARRANTY <sup>2</sup>
BRIGGS & STRATTON MODEL	ALTERNATOR MODEL	VOLTAGE	PHASE	HZ	kW / kVA	AMPS	PARTS, LABOR, TRAVEL
080001	ECP34-2S/4	120/208	3	60	80 / 100	277	
080002	ECP34-2S/4	120/240	3	60	80 / 100	240	0. V
080003	ECP34-2S/4	277/480	3	60	80 / 100	120	3 Year
080000	ECP34-2S/4	120/240	1	60	80 / 100	333	

<sup>&</sup>lt;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>&</sup>lt;sup>2</sup> Warranty details available at www.briggsandstratton.com



### **ENGINE SPECIFICATIONS**

ENGINI	<b>.</b>	
Manufacturer	PSI	
Aspiration	Turbocharged	
Model Type	5.7, Industrial Powertrain, 4-Cycle	
Speed (RPM)	1800	
Cylinder Arrangement	V8	
Displacement (L / ci)	5.7 / 350	
Bore & Stroke (mm / in)	101.6 x 88.4 / 4.00 x 3.48	
Compression Ratio	9:4:1	
Governor Type	Electronic	
Rated HP	129	
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)	4.7 / 5.0	
Oil Filter (Quantity / Type)	1 / Cartridge	
COOLING SYSTEM		
Heat Rejected to Cooling Water at Rated Load (kcal/sec / Btu/min)	14.8 / 3525	
Water Pump Type	Centrifugal	

	ELECTRIC	CAL SYSTEM		
Ignition Systen	HVS Distributor			
Battery Quant	1			
Battery Voltag	12			
Battery CCA (A		630		
Battery Chargi	ing Alternator			
Ground (Neg		Negative		
Voltage (VDC)			12	
Amperage (A)			70	
Starter Motor	Voltage (VDC)		12	
	EXHAUS	ST SYSTEM		
Exhaust Manifo	old Type		Dry	
Exhaust Flow a	t Rated Load (m <sup>3</sup> /	min / cfm)	22 / 787	
Exhaust Tempe	rature at Rated Lo	oad (°C / °F)	732 / 1350	
Maximum Allov	vable Back Pressu	re (kPa / in Hg)	10.2 / 3.0	
FUEL SYSTEM				
Fuel Type			Natural Gas	
Fuel Supply Line Inlet			1 1/4 NPT	
Recommended Fuel, Lower Heating Value Minimum (MJ/m³ / Btu/ft³)			34.3 / 904	
Fuel Supply Pressure (mbar / in H2O)			17-28 / 7-11	
	FUEL COI	NSUMPTION		
	Full Load	1/2 Load	No Load	
BTU/hr	858,000	498,000	210,000	
ft³/hr	858	498	210	
m³/hr	24.30	14.10	5.95	
	ENGINE OUT	PUT DERATINGS		
Rated Temp (°C	; / °F)		25 / 77	
Rated Altitude	(Above Sea Level)	ft/m	1200 / 366	
Temperature Derate			1.5% for each 5.6°C (10°F) above rated temp	
Altitude Derate			2.5% for each 305m (1000ft) above rated altitude	
SOUND RATING AT 7 METERS, LOWEST SIDE				
No Load			79 dB(A)	
AIR INDUCTION SYSTEM				
Combustion Air	6.9 / 244			

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#### **ADDITIONAL STANDARD FEATURES**

	AVAILABLE ACCESSORIES
6335	Battery Cable Lockout, NFPA 110 Compliant
6343	Battery Warmer
6350	Engine Communication Cable
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
6463	Battery Charger, NFPA 110 Compliant, DSE 9461-02
6464	Communication Interface, DSE 890-01
6465	Remote Annunciator, DSE 2548-01
6466	Remote Display, DSE 2510-32
6469	Silencer, Super Critical Grade
6470	Silencer, Hospital Grade
6472	AVR Commutation Cable

#### **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 skidmounted 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 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, stainless steel door latches
- · Critical grade silencer
- Steel enclosure standard with hinged doors

WEIGHT & DIMENSIONS	
Assembled Weight (lbs)	2500
Overall Dimensions (in)	120 x 52 x 86

Packaged Weight (lbs) 2670 Packaged Dimensions (in) 127 x 60 x 92

#### **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

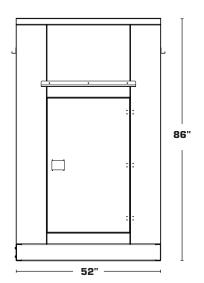
- Configurable display languages
- Power save mode
- Integral PLC editor
- Flexible sender inputs
- DSE Configuration Suite PC Software
- Configurable event log (250)
- Load switching, load shedding & dummy load outputs

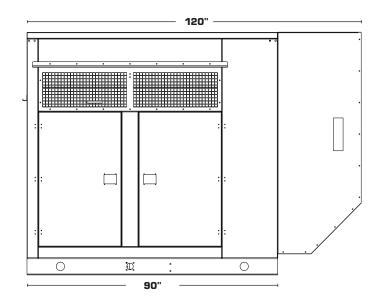
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<sup>&</sup>lt;sup>2</sup> The installation manual contains specific instructions related to generator placement in addition to NFPA 37, including the requirement that carbon monoxide detectors be installed and maintained in your business and home

<sup>\*</sup> 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 Type 4-Pole, Rotating-Field 4-Pole, Rotating-Field Brushless, Auxiliary Brushless, Auxiliary **Exciter Type** Winding Winding Digital - Phase Sensing Digital - Phase Sensing Voltage Regulator **Insulation Rating** Class H Class H **Designed Temperature** 125°C 125°C Rise Limit Bearing (Quantity / 1 / Sealed 1 / Sealed Type) Coupling Flexible Disk Flexible Disk **Amortisseur Windings** Full Voltage Regulation, +/- 1.0% +/- 1.0% NL to FL One Step Load 100% of Rating 100% of Rating Acceptance **Total Harmonic** < 4.5% < 3.5% Distortion

- 12 Wire reconnectable alternator.
- 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.

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.

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