

100kW¹ 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

- 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
080011	ESP34-2L4	120/208	3	60	100 / 125	347	
080012	ESP34-2L4	120/240	3	60	100 / 125	301	3 Year
080013	ESP34-2L4	277/480	3	60	100 / 125	150	o real.
080010	ESP34-2L/4	120/240	1	60	100 / 125	417	

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	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	
Rated HP	129	
Governor Type	Electronic	
Frequency Regulation Steady State	+/- 0.5%	
Frequency Regulation No-load to Full-load	Isochronous	
Air Filter Type	Dry	
LUBRICATION SYSTEM		
ype 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)	17.2 / 4100	
Water Pump Type	Centrifugal	

ELECTRICAL SYSTEM				
Ignition System			HVS Distributor	
Battery Quantit	у		1	
Battery Voltage	(VDC)		12	
Battery CCA (A)			630	
Battery Charging	g Alternator			
Ground (Nega	tive/Positive)		Negative	
Voltage (VDC)			12	
Amperage (A)			70	
Starter Motor V	oltage (VDC)		12	
	EXHAUST	SYSTEM		
Exhaust Manifol	d Type		Dry	
Exhaust Flow at	Rated Load (m³/mir	n / cfm)	23.95 / 845.9	
Exhaust Tempera	ature at Rated Load	I (°C / °F)	732 / 1350	
Maximum Allowa	ble Back Pressure,	(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)			33.2 / 890	
Fuel Supply Pres	sure (mbar / in H20	D)	17-28 / 7-11	
	FUEL CONS	UMPTION		
	Full Load	1/2 Load	No Load	
BTU/hr	1,389,000	546,000	222,000	
ft³/hr	556	218	89	
m3/hr	15.73	6.18	2.51	
	ENGINE OUTPU	T DERATINGS		
Rated Temp			104°F / 25°C	
Rated Altitude (Above Sea Level) ft/	/m	1200 / 366	
Temperature De	rate		1% for each 10°F (5.6°C) above rated temp	
Altitude Derate			2.5% for each 305m (1000ft) above rated altitude	
SOUND RATING AT 7 METERS, LOWEST SIDE				
Full Load			81 dB(A)	
AIR INDUCTION SYSTEM				
Combustion Air ((m³/min / cfm)		7.42 / 262	

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ADDITIONAL STANDARD FEATURES

	AVAILABLE ACCESSORIES
6335	Battery Cable Lockout, NFPA 110 Compliant
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
6468	Remote Annunciator Kit NFPA 110 Compliant,DSE 2548-01
6469	Silencer, Super Critical Grade
6470	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 skidmounted fuel system components)
- Integral Vibration Isolation
- Local Emergency Stop Switch
- Oil Drain Extension
- Operation and Installation Literature²
- Steel Sound Enclosure

SOUND ENCLOSURES

- Sound level ratings with no load: 80 dB(A)* Lockable, stainless steel door latches
- Sound attenuating enclosure uses acoustic insulation that meets UL 94 HF1 flammability classification and repels moisture absorption
- · Critical grade silencer
- Steel enclosure standard with hinged doors

WEIGHT & DIMENSIONS			
Assembled Weight (lbs)	4125		
Overall Dimensions (in)	120 x 52 x 86		
Packaged Weight (lbs)	4295		
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

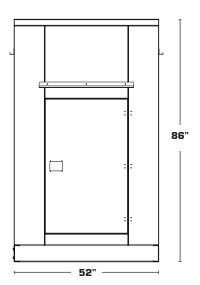
- Configurable display languages
- Power save mode
- Integral PLC editor
- Flexible sender inputs
- DSE Configuration Suite PC Software
- Configurable event log (250)
- · Load switching, load shedding & dummy load outputs

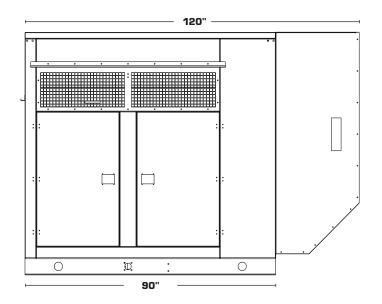
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² The installation manual contains specific instructions related to generator placement in addition to NFPA 37, including the requirement that carbon monoxide detectors be installed and maintained in your business and home

^{*} 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, Volts/Hz	Digital, Volts/Hz
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	< 4.5%	< 3.5%

- 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.

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.

FOR MORE INFORMATION PLEASE CONTACT YOUR LOCAL BRIGGS & STRATTON DEALER.

To find a dealer visit www.briggsandstratton.com

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 CORPORATION

POST OFFICE BOX 702

MILWAUKEE, WI 53201 USA

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