





**Standby Generators** 

## **SPECIFICATIONS**

**OVERVIEW** 

Brand			Briggs & Stratton®		
Model Number	080020	080021	080022	080023	080024
Rated Countries	US / Canada				
Rated AC Voltage (Volts)	120 / 240	120 / 208	120 / 240	277 / 480	347 / 600
Frequency (Hz)	60				
Generator Breaker (Amps)	700	600	500	250	225
Operating Ambient Temperature (°C / °F)			-28 - 40 / -20 - 104		
Running Amperage (Amps)	625	520	451	226	180
Running Watts <sup>1</sup> (NG) (kW / kVA)	150 / 150				
Phase	1 3				
Engine					
Engine Brand/Manufacturer	PSI				
Model Type	8.8L Industrial Powertrain, 4-cycle				
Aspiration	Turbo Charge Air Cooled				
Speed (RPM)	1800				
Displacement (L / ci)	8.8 / 535				
Compression Ratio	10.1:1				
Rated Horsepower (gross hp)	261				
Governor Type	Electronic				
Bore & Stroke (mm / in)	110.5 x 114.3 / 4.35 x 4.5				
Number of Cylinders	8				
Cylinder Arrangement	V8				
Start Type	Automatic				
Frequency Regulation Steady State, No Load to Full Load (%)			+/- 0.5		



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	080020 080021 080022 080023 080024		
Engine			
Frequency Regulation, No Load to Full Load	Isochronous		
Air Filter Type	Dry		
Low Oil Pressure Sensor	Yes		
Low Coolant Sensor	Yes		
Engine Block Heater	Yes		
Engine - Output Deratings			
Rated Temperature (°C / °F)	25 / 77		
Rated Altitude (Above Sea Level) (m / ft)	366 / 1200		
Temperature Derate	1.5% for every 5.6°C (10°F) above rated temp		
Altitude Derate	2.5% for every 305m (1000ft) above rated altitude		
Sound Rating <sup>2</sup>			
No Load dB(A)	77		
Air Induction System			
Combustion Air (m³/min / cfm)	10.3 / 365		
ubrication System			
Гуре	Full Pressure		
Dil Capacity (L / qt)	7.6 / 8		
Dil Filter (Quantity / Type)	1 / Cartridge		
Cooling System			
Cooling System Type	Radiator, Closed-loop		
Coolant Capacity (Engine Only) (L / qt)	13.7 / 14.5		
Coolant Capacity (System Total) (L / qt)	49.2 / 52		
Heat Rejected to Cooling Water at Rated Load (kcal/sec / BTU/min)	21.1 / 5021		
Nater Pump Type	Centrifugal		
Electrical System			
gnition System	Individual Ignition Coil		
Battery Quantity	1		
Battery Voltage (VDC)	12		
Battery CCA (Amps)	925		
Starter Motor Voltage (VDC)	12		
Battery Charging Alternator			
Ground (Negative / Positive)	Negative		
Nominal Voltage (VDC)	12		
Maximum Amperage (Amps)	70		



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	080020	080021 080022 0800	080024
Exhaust System			
Exhaust Manifold Type		Dry	
Exhaust Flow at Rated Load (m³/min / cfm)		33 / 1178	
Exhaust Temperature at Rated Load (°C / °F)		732 / 1350	
Maximum Allowable Back Pressure (kPa / in Hg)		10.2 / 3.0	
Fuel System			
Fuel Type		Natural Gas	
Fuel Supply Line Inlet		11/2" NPT	
Recommended Fuel, Lower Heating Value Minimum (MJ/m³ / BTU/ft³)		34.3 / 904	
Fuel Supply Pressure (mbar / in H <sub>2</sub> 0)		17-28 / 7-11	
Fuel Consumption <sup>3</sup>			
No Load, NG (BTU/hr)		387,000	
No Load, NG (ft³/hr)		387	
No Load, NG (m³/hr)	11.0		
Half Load, NG (BTU/hr)	1,088,000		
Half Load, NG (ft³/hr)	1,088		
Half Load, NG (m³/hr)	30.9		
Full Load, NG (BTU/hr)	1,868,000		
Full Load, NG (ft³/hr)	1,868		
Full Load, NG (m³/hr)	52.9		
Alternator Specifications			
Alternator Type	Brushless, 4-Lead	Brushless, 12-Lead	
Alternator Manufacturer		MeccAlte	
Alternator Model Number	ECO38-1LN/4	ECO38-1SN/4	ECP34-3L4
Frequency (Hz)		60	
Exciter Type - Primary Alternator	Auxiliary Winding		
Insulation Rating (Class)	н		
Designed Temperature Rise (°C)	125		
Bearing (Quantity / Type)	1 / Sealed		
Coupling	Flexible Disk		
Amortisseur Windings	Full		
Number of Poles		4	
Voltage Regulator		Digital, 1-phase Sensing	
Voltage Regulation, No Load to Full Load (%)	+/- 1.0		



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Alternator Specifications			
One-step Load Acceptance		100% of Rating	
Sustained Short-Circuit Current		300% of Rated Current for 20 Seconds	
Total Harmonic Distortion (THD), No Load to Full Load (%)	< 4.5	< 3.5	
Controls/Instrumentation			
Controller Manufacturer		Deep Sea	
Controller		DSE 7310 MKII	
Charger		Marinco 6 Amp	
Starting		2-wire	
Alternator Frequency		Yes	
Real Time Clock		Yes	
Single & 3-phase Sensing		Yes	
Accumulated Power Monitoring		Yes	
Runtime & Downtime Monitoring		Yes	
Configurable Outputs		Yes	
Configurable Inputs		Yes	
Engine Maintenance Alarms		Yes	
Engine Hour Counter		Yes	
Engine Runtime Scheduler		Yes	
Event Log		Yes	
Web-based Monitoring		Yes	
Controller Features			
Heated Display Option		Yes	
True 3-phase Generator Sensing	Single-phase	Yes	
Power Monitoring (kW, kVA, kVAR)		Yes	
Remote Communications (RS232 & RS485) Capable		Yes	
Configurable Inputs / Outputs		Yes	
CAN Sensing		Yes	
Configurable Display Languages		Yes	
Power Save Mode		Yes	
ntegral PLC Editor		Yes	
Flexible Sender Inputs		Yes	
DSE Configuration Suite PC Software		Yes	
Configurable Event Log (250)		Yes	
Load Switching, Load Shedding & Dummy Load Outputs		Yes	
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	080020 080021 080022 080023	080024
Other Features		
Alternator Protection	Yes	
Battery Rack and Cables	Yes	
Battery	Yes	
Electronic, Isochronous Governor	Yes	
Gas Fuel System	Yes	
Integral Vibration Isolation	Yes	
Operation and Installation Manuals	Yes	
Steel Sound Enclosure	Yes	
Accessories		
Battery Charger, 9461-02	6463-00	
Controller Remote Communication Module, DSE 890-01	6464-00	
Remote Annunciator, DSE 2548-01	6465-00	
Remote Display, DSE 2510-32	6466-00	
Emergency Stop Switch, NEMA 4X	6360-00	
Emergency Stop Switch, w/ Cover	6361-00	
Battery Warmer	6343-00	
Battery Cable Lockout	6335-00	
Engine Communication Cable	6350-00	
AVR Communication Cable	6472-00	
Controller Communication Cable, USB-A to USB-B	6428-00	
Remote Annunciator Kit, DSE 2548-01	6468-00	
Limited Warranty <sup>4</sup>		
Warranty: Generator, incl engine (Parts / Labor / Travel) (Years)	3	
Warranty: Enclosure, Rust Through (Parts / Labor / Travel) (Years)	2	
Certifications		
UL	Yes	
cUL	Yes	

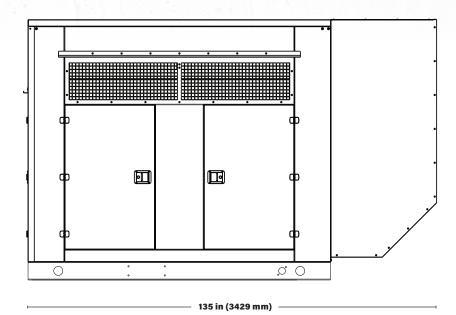


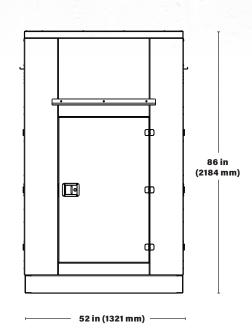
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Weights & Dimensions	
Assembled Dimensions (Length x Width x Height) (in / mm)	135 x 52 x 86 / 3429 x 1321 x 2184
Assembled Weight (lbs / kg)	5380 / 2440
Packaged Dimensions (Length x Width x Height) (in / mm)	144 × 58 × 92 / 3658 × 1473 × 2337
Packaged Weight (lbs / kg)	5563 / 2523









- <sup>1</sup> This generator is listed 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> Per ISO 3744. Sound level measurement at other locations around generator may differ depending on installation, based on lowest microphone at 7m. Normal operation based on average household usage.
- <sup>3</sup> Fuel consumption rates are estimated based on normal operating conditions. Generator operation may be greatly affected by elevation and the cycling operation of multiple electrical appliances fuel flow rates may vary depending on these factors.
- $^{\rm 4}\,$  See operator's manual or BRIGGSandSTRATTON.com for complete warranty details.

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