

125 kW

LIQUID COOLED
Standby Generators



LIQUID COOLED Standby Generators



SPECIFICATIONS

OVERVIEW				
Brand	Briggs & Stratton®			
Model Number	080015	080016	080017	080018
Rated Countries	US / Canada			
Rated AC Voltage (Volts)	120 / 240	120 / 208	120 / 240	277 / 480
Frequency (Hz)	60			
Generator Breaker (Amps)	600	500	450	225
Operating Ambient Temperature (°C / °F)	-28 - 40 / -20 - 104			
Running Amperage (Amps)	521	434	376	188
Running Watts¹ (NG / LP)	125 / 125	125 / 156.3		
Running Amperage - Continuous Duty (International Use Only) (Amps)	416	347	301	150
Running Watts - Continuous Duty (International Use Only) (NG / LP) (kW / kVA)	100 / 100	100 / 125		
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)	230			
Governor Type	Electronic			
Bore & Stroke (mm / in)	110.5 x 114.3 / 4.35 x 4.5			
Number of Cylinders	8			

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Engine	
Cylinder Arrangement	V8
Start Type	Automatic
Frequency Regulation Steady State, No Load to Full Load (%)	+/- 0.5
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 ²	
No Load dB(A)	77
Air Induction System	
Combustion Air (m ³ /min / cfm)	10.3 / 365
Lubrication System	
Type	Full Pressure
Oil Capacity (L / qt)	7.6 / 8
Oil 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
Water Pump Type	Centrifugal
Electrical System	
Ignition System	Individual Ignition Coil
Battery Quantity	1
Battery Voltage (VDC)	12
Battery CCA (Amps)	925
Starter Motor Voltage (VDC)	12

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Battery Charging Alternator	
Ground (Negative / Positive)	Negative
Nominal Voltage (VDC)	12
Maximum Amperage (Amps)	70
Exhaust System	
Exhaust Manifold Type	Dry
Exhaust Flow at Rated Load (m ³ /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	LPV
Fuel Supply Line Inlet	1 1/2" NPT
Recommended Fuel, Lower Heating Value Minimum (MJ/m ³ / BTU/ft ³)	87.1 / 2338
Fuel Supply Pressure (mbar / in H ₂ O)	17-28 / 7-11
Fuel Consumption ³	
No Load, LP (BTU/hr)	348,000
No Load, LP (ft ³ /hr)	140
No Load, LP (m ³ /hr)	4.0
Half Load, LP (BTU/hr)	938,000
Half Load, LP (ft ³ /hr)	375
Half Load, LP (m ³ /hr)	10.7
Full Load, LP (BTU/hr)	1,567,000
Full Load, LP (ft ³ /hr)	627
Full Load, LP (m ³ /hr)	17.8
Alternator Specifications	
Alternator Type	Brushless, 4-Lead Brushless, 12-Lead
Alternator Manufacturer	MeccAlte
Alternator Model Number	ECO38-1LN/4 ECO38-1SN/4
Frequency (Hz)	60
Exciter Type - Primary Alternator	Auxiliary Winding
Insulation Rating (Class)	H
Designed Temperature Rise (°C)	125
Bearing (Quantity / Type)	1 / Sealed
Coupling	Flexible Disk
Amortisseur Windings	Full

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Alternator Specifications			
Number of Poles	4		
Voltage Regulator	Digital, 1-phase sensing		
Voltage Regulation, No Load to Full Load	+/- 1.0		
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		
Integral PLC Editor	Yes		
Flexible Sender Inputs	Yes		

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Controller Features				
DSE Configuration Suite PC Software			Yes	
Configurable Event Log (250)			Yes	
Load Switching, Load Shedding & Dummy Load Outputs			Yes	
Other Features				
Alternator Protection			Yes	
Battery Rack and Cables			Yes	
Battery			Yes	
Isochronous Governor			Yes	
Gas Fuel System			Yes	
Integral Vibration Isolation			Yes	
Operation and Installation Manual(s)			Yes	
Steel Sound Enclosure			Yes	
Accessories				
Liquid Propane Vaporizer Kits			6504-01	
Battery Charger, 9461-02			6463-00	
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 Warranty⁴				
Warranty: Generator, Domestic (Parts / Labor / Travel) (Years)			3	
Warranty: Generator, International (Parts / Labor / Travel) (Years / Hours)			3 / 1000	
Warranty: Engine, Domestic (Parts / Labor / Travel) (Years)			3	
Warranty: Engine, International (Parts / Labor / Travel) (Years / Hours)			3 / 1000	
Warranty: Enclosure, Surface Rust and Corrosion (Parts / Labor / Travel) (Years)			1	
Warranty: Enclosure, Rust Through (Parts / Labor / Travel) (Years)			2	

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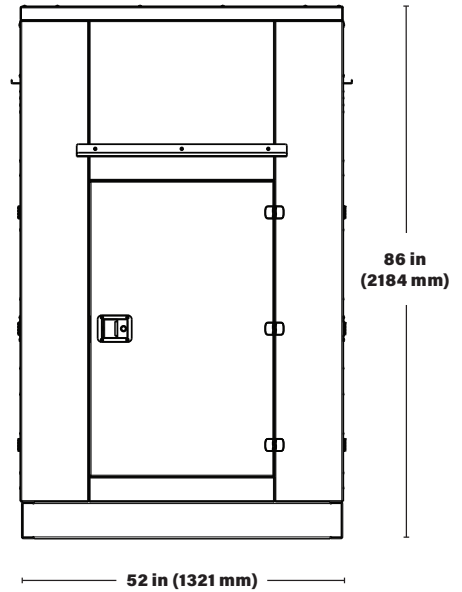
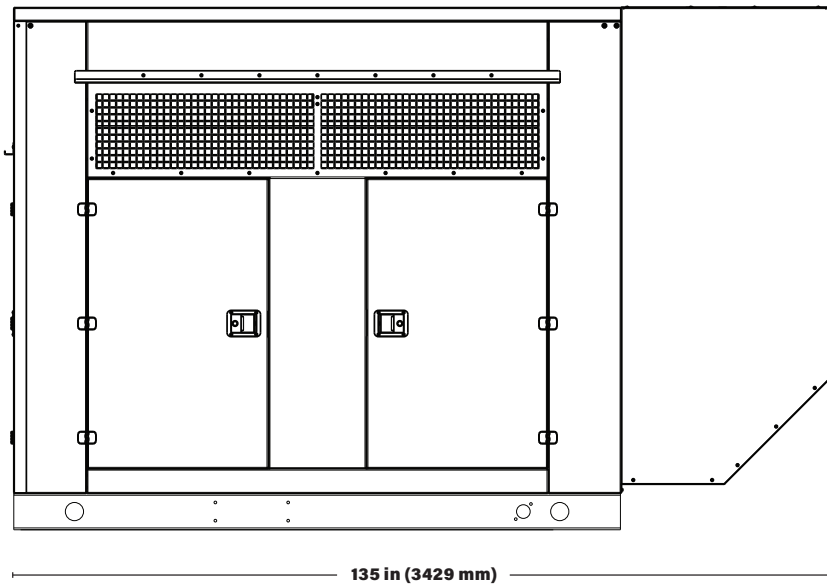
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Certifications	
UL	Yes
cUL	Yes
Weights & Dimensions	
Assembled Dimensions (Length x Width x Height) (in / mm)	135 x 52 x 86 / 3429 x 1321 x 2184
Assembled Weight (lbs / kg)	5380 / 2440
Packaged Dimensions (Length x Width x Height) (in / mm)	144 x 58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



¹ 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).

² 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.

³ 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.

⁴ See operator's manual or energy.briggsandstratton.com for complete warranty details.

Briggs & Stratton has a policy of continuous product improvement and reserves the right to modify its specifications at any time and without prior notice. This standby generator is not for Prime Power applications.

Please visit energy.briggsandstratton.com for the latest information.

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