

**80**  
kW  
NG



**YOU.POWERED.**

# LIQUID COOLED

## Standby Generators



## SPECIFICATIONS

OVERVIEW					
<b>Brand</b>	Briggs & Stratton®				
<b>Model Number</b>	080080	080081	080082	080083	080084
<b>Rated Countries</b>	US / Canada				
<b>Rated AC Voltage (Volts)</b>	120 / 240	120 / 208	120 / 240	277 / 480	347 / 600
<b>Frequency (Hz)</b>	60				
<b>Generator Breaker (Amps)</b>	350	300		150	100
<b>Operating Ambient Temperature (°C / °F)</b>	-28 - 40 / -20 - 104				
<b>Running Amperage (Amps)</b>	333	277	240	120	96
<b>Running Watts<sup>1</sup> (NG) (kW / kVA)</b>	80 / 80	80 / 100			
<b>Running Amperage - Continuous Duty International Use Only (Amps)</b>	266	222	192	96	77
<b>Running Watts - Continuous Duty International Use Only (NG) (kW / kVA)</b>	64 / 64	64 / 80			
<b>Phase</b>	1		3		
Engine					
<b>Engine Brand/Manufacturer</b>	PSI				
<b>Model Type</b>	5.7L Industrial Powertrain, 4-cycle				
<b>Aspiration</b>	Turbo				
<b>Speed (RPM)</b>	1800				
<b>Displacement (L / ci)</b>	5.7 / 350				
<b>Compression Ratio</b>	9.4:1				
<b>Rated Horsepower (gross hp)</b>	129				
<b>Governor Type</b>	Electronic				
<b>Bore &amp; Stroke (mm / in)</b>	101.6 x 88.4 / 4.00 x 3.48				
<b>Number of Cylinders</b>	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 <sup>2</sup>	
No Load dB(A)	79
Air Induction System	
Combustion Air (m <sup>3</sup> /min / cfm)	6.9 / 244
Lubrication System	
Type	Full Pressure
Oil Capacity (L / qt)	4.7 / 5.0
Oil Filter (Quantity / Type)	1 / Cartridge
Cooling System	
Cooling System Type	Radiator, Closed-Loop
Coolant Capacity (Engine Only) (L / qt)	7.8 / 8.1
Coolant Capacity (System Total) (L / qt)	26.8 / 28.3
Heat Rejected to Cooling Water at Rated Load (kcal/sec / BTU/min)	14.8 / 3525
Water Pump Type	Centrifugal
Electrical System	
Ignition System	HVS Distributor
Battery Quantity	1
Battery Voltage (VDC)	12
Battery CCA (Amps)	630
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 <sup>3</sup> /min / cfm)	22 / 787		
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	1 1/4" NPT		
Recommended Fuel, Lower Heating Value Minimum (MJ/m <sup>3</sup> / BTU/ft <sup>3</sup> )	34.3 / 904		
Fuel Supply Pressure (mbar / in H <sub>2</sub> O)	17-28 / 7-11		
Fuel Consumption <sup>3</sup>			
No Load, NG (BTU/hr)	269,000		
No Load, NG (ft <sup>3</sup> /hr)	269		
No Load, NG (m <sup>3</sup> /hr)	7.6		
Half Load, NG (BTU/hr)	728,000		
Half Load, NG (ft <sup>3</sup> /hr)	728		
Half Load, NG (m <sup>3</sup> /hr)	20.7		
Full Load, NG (BTU/hr)	1,239,000		
Full Load, NG (ft <sup>3</sup> /hr)	1,239		
Full Load, NG (m <sup>3</sup> /hr)	35.1		
Alternator Specifications			
Alternator Type	Brushless, 4-Lead	Brushless, 12-Lead	
Alternator Manufacturer	Coliseum		
Alternator Model Number	80BSPP-0A	80BSPP-2A	80BSPP-1A
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		
Number of Poles	4		

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Alternator Specifications		
Voltage Regulator	Analog, 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 (%)	< 5.0	
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	
DSE Configuration Suite PC Software	Yes	
Configurable Event Log (250)	Yes	
Load Switching, Load Shedding & Dummy Load Outputs	Yes	

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#### 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
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, 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

#### Certifications

UL	Yes
cUL	Yes

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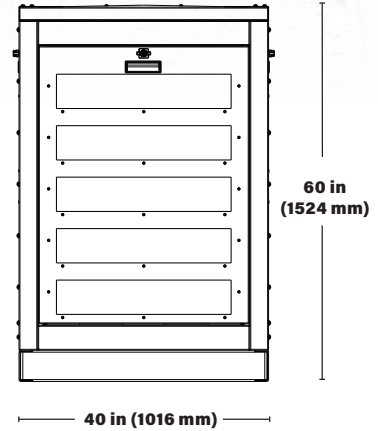
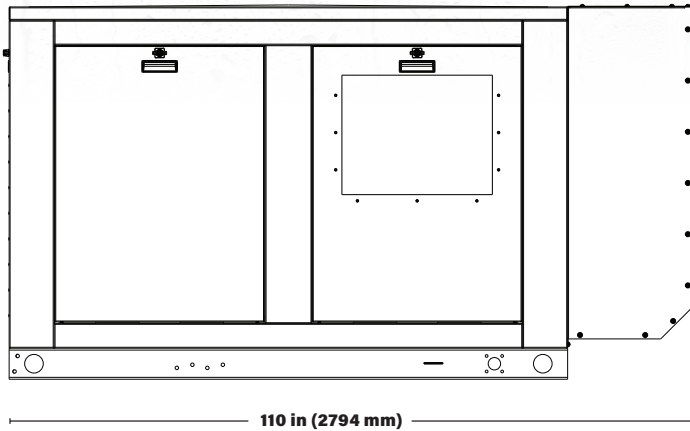
080082

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#### Weights & Dimensions

<b>Assembled Dimensions (Length x Width x Height) (in / mm)</b>	110 x 40 x 60 / 2794 x 1016 x 1524
<b>Assembled Weight (lbs / kg)</b>	2590 / 1175
<b>Packaged Dimensions (Length x Width x Height) (in / mm)</b>	120 x 43 x 67 / 3048 x 1092 x 1702
<b>Packaged Weight (lbs / kg)</b>	2760 / 1252



<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> 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.

<sup>4</sup> See operator's manual or 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 BRIGGSandSTRATTON.com for the latest information.

BS1377 - 4/22



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