

**80**  
kW  
LPV



**YOU.POWERED.**



# LIQUID COOLED

## Standby Generators

### SPECIFICATIONS

| OVERVIEW   |                                     |           |           |           |           |
|--|-------------------------------------|-----------|-----------|-----------|-----------|
| <b>Brand</b>   | Briggs & Stratton®                  |           |           |           |           |
| <b>Model Number</b>  | 080005                              | 080006    | 080007    | 080008    | 080009    |
| <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>  | 400                                 | 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> (LPV) (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 (LPV) (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 Charge Air Cooled             |           |           |           |           |
| <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>   | 149                                 |           |           |           |           |
| <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                                   |           |           |           |           |
| <b>Cylinder Arrangement</b>  | V8                                  |           |           |           |           |
| <b>Start Type</b>  | Automatic                           |           |           |           |           |

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| Engine  |   |
|---|---|
| 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)   | 81  |
| Air Induction System  |   |
| Combustion Air (m <sup>3</sup> /min / cfm)                        | 7.4 / 262   |
| 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)                          | 34.2 / 36.1                                       |
| 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 Quantity  | 1   |
| Battery Voltage (VDC)   | 12  |
| Battery CCA (Amps)  | 630   |
| Starter Motor Voltage (VDC)                                       | 12  |
| Battery Charging Alternator                                       |   |
| Ground (Negative / Positive)                                      | Negative  |
| Nominal Voltage (VDC)   | 12  |
| Maximum Amperage (Amps)   | 70  |

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| Exhaust System   |   |
|--|---|
| Exhaust Manifold Type  | Dry                                       |
| Exhaust Flow at Rated Load (m <sup>3</sup> /min / cfm)                                   | 24 / 846                                  |
| 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 1/4" NPT                                |
| Recommended Fuel, Lower Heating Value Minimum (MJ/m <sup>3</sup> / BTU/ft <sup>3</sup> ) | 87.1 / 2338                               |
| Fuel Supply Pressure (mbar / in H <sub>2</sub> O)  | 17-28 / 7-11                              |
| Fuel Consumption <sup>3</sup>  |   |
| No Load, NG (BTU/hr)   | 279,000                                   |
| No Load, NG (ft <sup>3</sup> /hr)  | 112                                       |
| No Load, NG (m <sup>3</sup> /hr)   | 3.2                                       |
| Half Load, NG (BTU/hr)   | 754,000                                   |
| Half Load, NG (ft <sup>3</sup> /hr)  | 302                                       |
| Half Load, NG (m <sup>3</sup> /hr)   | 8.6                                       |
| Full Load, NG (BTU/hr)   | 1,283,000                                 |
| Full Load, NG (ft <sup>3</sup> /hr)  | 514                                       |
| Full Load, NG (m <sup>3</sup> /hr)   | 14.6                                      |
| Alternator Specifications  |   |
| Alternator Type  | Brushless, 4-Lead      Brushless, 12-Lead |
| Alternator Manufacturer  | MeccAlte                                  |
| Alternator Model Number  | ECP34-2S/4      ECP34-1S/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                                      |
| 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

|  |                                      |       |
|--|--------------------------------------|-------|
| <b>One-step Load Acceptance</b>                                  | 100% of Rating                       |       |
| <b>Sustained Short-Circuit Current</b>                           | 300% of Rated Current for 20 Seconds |       |
| <b>Total Harmonic Distortion (THD), No Load to Full Load (%)</b> | < 4.5                                | < 3.5 |

#### Controls/Instrumentation

|  |               |  |
|--|---------------|--|
| <b>Controller Manufacturer</b>           | Deep Sea      |  |
| <b>Controller</b>                        | DSE 7310 MKII |  |
| <b>Charger</b>                           | Marinco 6 Amp |  |
| <b>Starting</b>                          | 2-wire        |  |
| <b>Alternator Frequency</b>              | Yes           |  |
| <b>Real Time Clock</b>                   | Yes           |  |
| <b>Single &amp; 3-phase Sensing</b>      | Yes           |  |
| <b>Accumulated Power Monitoring</b>      | Yes           |  |
| <b>Runtime &amp; Downtime Monitoring</b> | Yes           |  |
| <b>Configurable Outputs</b>              | Yes           |  |
| <b>Configurable Inputs</b>               | Yes           |  |
| <b>Engine Maintenance Alarms</b>         | Yes           |  |
| <b>Engine Hour Counter</b>               | Yes           |  |
| <b>Engine Runtime Scheduler</b>          | Yes           |  |
| <b>Event Log</b>                         | Yes           |  |
| <b>Web-based Monitoring</b>              | Yes           |  |

#### Controller Features

|   |              |     |
|---|--------------|-----|
| <b>Heated Display Option</b>                                  | Yes          |     |
| <b>True 3-phase Generator Sensing</b>                         | Single-phase | Yes |
| <b>Power Monitoring (kW, kVA, kVAR)</b>                       | Yes          |     |
| <b>Remote Communications (RS232 &amp; RS485) Capable</b>      | Yes          |     |
| <b>Configurable Inputs / Outputs</b>                          | Yes          |     |
| <b>CAN Sensing</b>  | Yes          |     |
| <b>Configurable Display Languages</b>                         | Yes          |     |
| <b>Power Save Mode</b>  | Yes          |     |
| <b>Integral PLC Editor</b>                                    | Yes          |     |
| <b>Flexible Sender Inputs</b>                                 | Yes          |     |
| <b>DSE Configuration Suite PC Software</b>                    | Yes          |     |
| <b>Configurable Event Log (250)</b>                           | Yes          |     |
| <b>Load Switching, Load Shedding &amp; Dummy Load Outputs</b> | 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  |          |
| Liquid Propane Vaporizer Kits  | 6504-01  |
| 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, 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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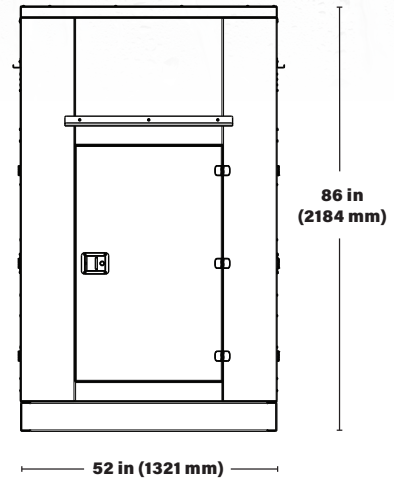
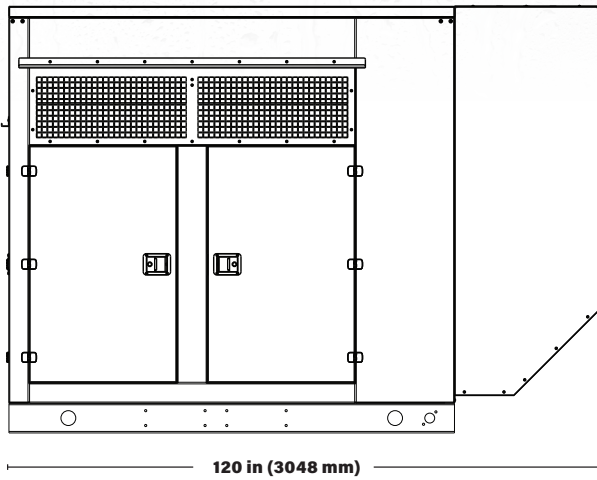
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#### Weights & Dimensions

|   |                                    |
|---|------------------------------------|
| <b>Assembled Dimensions<br/>(Length x Width x Height) (in / mm)</b> | 120 x 52 x 86 / 3048 x 1321 x 2184 |
| <b>Assembled Weight (lbs / kg)</b>                                  | 4125 / 1871                        |
| <b>Packaged Dimensions<br/>(Length x Width x Height) (in / mm)</b>  | 127 x 58 x 92 / 3226 x 1473 x 2337 |
| <b>Packaged Weight (lbs / kg)</b>                                   | 4295 / 1948                        |



<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.

<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.

BS1378 - 4/22



**BRIGGS & STRATTON**  
POST OFFICE BOX 702  
MILWAUKEE, WI 53201 USA