

35

kW



YOU.POWERED.

LIQUID COOLED Standby Generators



SPECIFICATIONS

OVERVIEW						
Brand	Briggs & Stratton®					Fortress™
Model Number	076130	076330	076331	076333	076335	076830
Rated Countries	US / Canada					
Rated AC Voltage (Volts)	120 / 240		120 / 208	120 / 240	277 / 480	120 / 240
Frequency (Hz)	60					
Generator Breaker (Amps)	150		125	110	60	150
Operating Ambient Temperature (°C / °F)	-28 - 40 / -20 - 104					
Running Amperage (LP / NG) (Amps)	145 / 145		121 / 121	105 / 105	52 / 52	145 / 145
Running Watts¹ (LP / NG) (kW / kVA)	35 / 35		35 / 43.8			35 / 35
Running Amperage - Continuous Duty International Use Only (LP / NG) (Amps)	116 / 116		96 / 96	84 / 84	41 / 41	116 / 116
Running Watts - Continuous Duty International Use Only) (LP / NG) (kW / kVA)	28/28 / 28/28		28/35 / 28/35			28/28 / 28/28
Phase	1		3			1
Engine						
Engine Brand/Manufacturer	PSI					
Model Type	4.3L Industrial Powertrain, 4-cycle					
Aspiration	Naturally Aspirated					
Speed (RPM)	1800					
Displacement (L / ci)	4.3 / 262					
Compression Ratio	9.8:1					
Rated Horsepower (gross hp)	51.5 LP / 51.5 NG					
Governor Type	Electronic					
Bore & Stroke (mm / in)	101.6 x 88.0 / 4.00 x 3.48					
Number of Cylinders	6					
Cylinder Arrangement	V6					
Start Type	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 ²	
No Load dB(A)	68
Air Induction System	
Combustion Air (m³/min / cfm)	3.2 / 112
Lubrication System	
Type	Full Pressure
Oil Capacity (L / qt)	4.3 / 4.5
Oil Filter (Quantity / Type)	1 / Cartridge
Cooling System	
Cooling System Type	Radiator, Closed-loop
Coolant Capacity (Engine Only) (L / qt)	7.3 / 7.8
Coolant Capacity (System Total) (L / qt)	22.7 / 24
Heat Rejected to Cooling Water at Rated Load (kcal/sec / BTU/min)	9.7 / 2300
Water Pump Type	Centrifugal
Electrical System	
Ignition System	HVS Distributor
Battery Quantity	1
Battery Voltage (VDC)	12
Battery CCA (Amps)	775
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 (m³/min / cfm)	10.3 / 362		
Exhaust Temperature at Rated Load (°C / °F)	732 / 1350		
Maximum Allowable Back Pressure (kPa / in Hg)	10.2 / 3.0		
Fuel System			
Fuel Type	NG / LPV		
Fuel Supply Line Inlet	1" NPT		
Recommended Fuel, Lower Heating Value Minimum (MJ/m³ / BTU/ft³)	NG: 34.3 / 904 LPV: 87.1 / 2338		
Fuel Supply Pressure (mbar / in H₂O)	17-28 / 7-11		
Fuel Consumption³			
No Load, NG (BTU/hr)	146,000		
No Load, NG (ft³/hr)	146		
No Load, NG (m³/hr)	4.2		
Half Load, NG (BTU/hr)	258,000		
Half Load, NG (ft³/hr)	258		
Half Load, NG (m³/hr)	7.3		
Full Load, NG (BTU/hr)	405,000		
Full Load, NG (ft³/hr)	405		
Full Load, NG (m³/hr)	11.5		
No Load, LP (BTU/hr)	137000		
No Load, LP (ft³/hr)	55		
No Load, LP (m³/hr)	1.6		
Half Load, LP (BTU/hr)	262,000		
Half Load, LP (ft³/hr)	105		
Half Load, LP (m³/hr)	3.0		
Full Load, LP (BTU/hr)	409,000		
Full Load, LP (ft³/hr)	164		
Full Load, LP (m³/hr)	4.7		
Alternator Specifications			
Alternator Type	Self-Excited, 4-Lead	Self-Excited, 12-Lead	Self-Excited, 4-Lead
Alternator Manufacturer	Coliseum		
Alternator Model Number	35BSPP-0	35TBSP-2	35BSPP-0
Frequency (Hz)	60		
Exciter Type - Primary Alternator	Self-Excited		

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Alternator Specifications			
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	Analog, 1-phase Sensing		
Voltage Regulation, No Load to Full Load (%)	+/- 1.0		
One-step Load Acceptance	100% Of Rating		
Total Harmonic Distortion (THD), No Load to Full Load (%)	< 5		
Controls/Instrumentation			
Controller Manufacturer	Briggs & Stratton	ComAp	Briggs & Stratton
Controller	Briggs & Stratton	IntelLite	Briggs & Stratton
Charger	Integrated	Accessory	Integrated
Starting	AMF	2-wire	AMF
Alternator Frequency	Yes		
Real Time Clock	Yes		
Single & 3-phase Sensing	No	Yes	No
Configurable Outputs	No	Yes	No
Configurable Inputs	No	Yes	No
Engine Maintenance Alarms	No	Yes	No
Engine Hour Counter	Yes		
Engine Runtime Scheduler	Yes	No	Yes
Event Log	No	Yes	No
Web-based Monitoring	No	Yes	No
NFPA 110 Compliant (Battery Charger, Controller Upgrade)	No	Yes	No
Controller Features			
True 3-phase Generator Sensing	No	Yes	No
Power Monitoring (kW, kVA, kVAR)	No	Yes	No
Remote Communications (RS232 & RS485) Capable	No	Yes	No
Configurable Inputs / Outputs	No	Yes	No
CAN Sensing	No	Yes	No
Configurable Display Languages	No	Yes	No
ComAp LiteEdit PC Software	No	Yes	No

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Other Features			
Battery Rack and Cables	Yes		
Electronic, Isochronous Governor	Yes		
Gas Fuel System	Yes		
Integral Vibration Isolation	Yes		
Oil Drain Extension	Yes		
Operation and Installation Manual(s)	Yes		
Aluminum Sound Enclosure	Yes		
Accessories			
Battery Charger, Marinco	No	6279-00	No
Battery Charger, Sentinel	No	6339-00	No
Controller Remote Communication Module, IL-NT GPRS	No	6354-00	No
Controller Remote Communication Module, IB-LITE	No	6355-00	No
Controller Remote Communication Module, IL-NT RS232-485	No	6356-00	No
Controller Remote Communication Module, IL-NT S-USB	No	6357-00	No
Remote Annunciator, RA-15	No	6334-00	No
Remote Display, IL-NT RD	No	6353-00	No
Emergency Stop Switch, NEMA 4X	No	6360-00	No
Emergency Stop Switch, w/ Cover	No	6361-00	No
Local Emergency Stop Switch	6491-00	No	6491-00
Battery Warmer	6343-00		
Battery Cable Lockout	6335-00		
Engine Communication Cable	6350-00		
Controller Communication Cable, USB-A to USB-B	6428-00	No	6428-00
Controller Communication Cable, RS232 Null Modem to USB-A	No	6429-00	No
Maintenance Kit	6514-00		
Limited Warranty ⁴			
Warranty: Generator, Domestic (Parts / Labor / Travel) (Years)	5		6
Warranty: Generator, International (Parts / Labor / Travel) (Years/Hours)	4 / 1200		N/A
Warranty: Engine, Domestic (Parts / Labor / Travel) (Years)	3		6
Warranty: Engine, International (Parts / Labor / Travel) (Years)	2		N/A
Warranty: Enclosure, Surface Rust and Corrosion (Parts / Labor / Travel) (Years)	1		
Warranty: Enclosure, Rust Through (Parts / Labor / Travel) (Years)	3		

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Weights & Dimensions

**Assembled Dimensions
(Length x Width x Height) (in / mm)**

91 x 39.4 x 41 / 2311 x 1001 x 1041

Assembled Weight (lbs / kg)

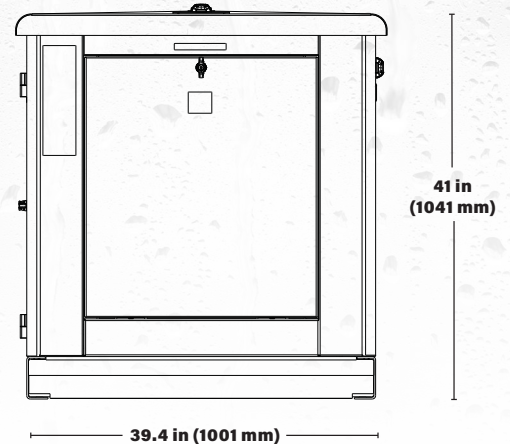
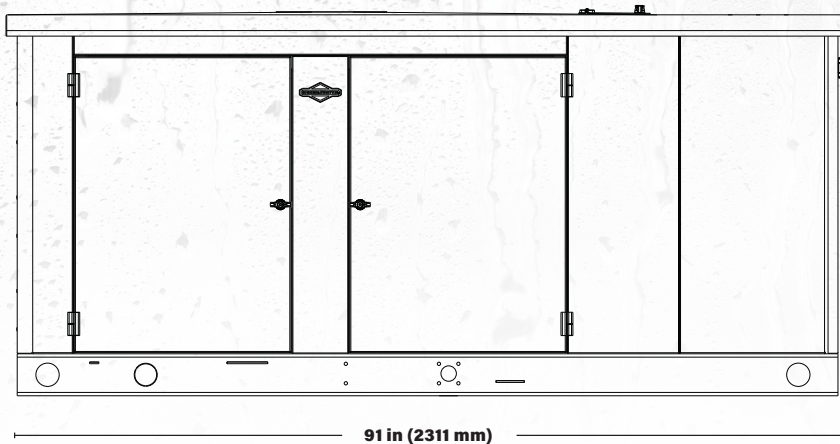
1541 / 699

**Packaged Dimensions
(Length x Width x Height) (in / mm)**

103.9 x 48 x 50.4 / 2638 x 1219 x 1280

Packaged Weight (lbs / kg)

1940 / 880



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 (motors and generators).

² Lowest no-load measurement per ISO 3744. Sound level measurement at other locations around generator may be different depending upon installation configuration.

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 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.

BS1374 - 4/22

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