



STANDBY GENERATORS

SYNERGY ELECTRIC INC.

12kW¹ STANDBY GENERATOR



BRIGGS & STRATTON® THE SMART CHOICE

For the discerning homeowner that is looking for the smartest, most reliable permanent backup power solution.

FORTRESS™

Introducing our dealer exclusive line. Available at your local Briggs & Stratton Dealer with these great features:

- The industry's longest parts, labor and travel limited warranty
- Installed oil warmer for increased starting protection in colder weather



Space Saving Design

- 50% smaller than our previous 12kW generator

60% Quieter²

- Re-engineered to be 60% quieter than our previous 12kW

Designed for Easy Installation & Maintenance

- Easy to move into installation location with two-wheel dolly
- Approved for installation as close as 18" to a building³
- Removable roof and side panels provide better service access to the engine and alternator

Symphony® II Power Management System

- Customizable to your home's needs
- Automatically balances the power of your home's electrical load including high wattage items like air conditioning units and electric ovens
- Offers whole house power with a more affordable home generator

Commercial-Grade Briggs & Stratton Vanguard™ Engine

- Powerful V-Twin OHV engine
- Easy conversion between natural gas (NG) and liquid propane vapor (LP) during installation

Quality Clean Power

- Ensures your electronics are safely powered

Corrosion Resistant Enclosure & Base

- Made with automotive grade galvanized steel to resist rust
- Powder-coated paint for years of protection against chips and abrasions



GENERATOR SET RATINGS

MODEL	VOLTAGE	PHASE	HZ	BREAKER	LIQUID PROPANE		NATURAL GAS		LIMITED WARRANTY ⁴
					LP kW	LP AMPS	NG kW	NG AMPS	PARTS, LABOR, TRAVEL
Fortress 040546	120/240	1	60	60	12	50	10.8	41.7	6 Year
Briggs & Stratton 040517	120/240	1	60	60	12	50	10.8	41.7	5 Year

¹ This generator is rated in accordance with UL (Underwriters Laboratories) 2200 (stationary engine generator assemblies) and CSA (Canadian Standards Association) standard C22.2 No. 100-04 (motors and generators).

² Based on no-load sound power.

³ The installation manual contains specific instructions related to generator placement in addition to NFPA 37, including the requirement that carbon monoxide detectors be installed and maintained in your home.

⁴ Warranty details available at www.briggsandstratton.com



ENGINE SPECIFICATIONS

ENGINE		LUBRICATION	
Engine Model	Briggs & Stratton Vanguard™	Oil Capacity (oz)	48
Engine Model Type Trim Number	389575-0002E1	Lubrication System	Full Pressure
Engine Speed (RPM)	3600	Recommended Oil	5W30 Full Synthetic
Engine Fuel	Liquid Propane (LP) or Natural Gas (NG)	Low Oil Pressure Sensor	Yes
Engine Cylinder Configuration	OHV	ALTERNATOR SPECS	
Number of Cylinders	2	Manufacturer	Mecc Alte
Displacement (cc)	38 / 627	Type	Self-Excited, Rotation Field
Bore & Stroke (in)	2.97 / 2.76	Voltage Regulator	Brushless
Compression Ratio	8.3:1	Insulation	Class H
Governor Type	Electronic	CONTROLLER FEATURES	
Frequency Regulation	+/- 1 Hz	Hour Meter	Yes
Valves	OHV with Hardened Seats	LED Digital Display	Yes
Ignition System	Fixed timing Magnetron® Electric Ignition	Fault Code Display	Yes
Starter Motor Rating Voltage	12 Volt	Weekly Exerciser	Yes
Battery	12 Volt		

OPERATIONS

FUEL CONSUMPTION ¹				SOUND RATING AT 7 METERS	
50% Load		100% Load		69 dBA	
Liquid Propane	62.1 ft ³ / hr	1.7 gal / hr	83.8 ft ³ / hr	2.3 gal / hr	Lowest measurement of 12 microphones around generator. Sound level measurement at other locations around generator may be different depending upon installation configuration.
Natural Gas	117 ft ³ / hr	—	172 ft ³ / hr	—	

¹ 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.



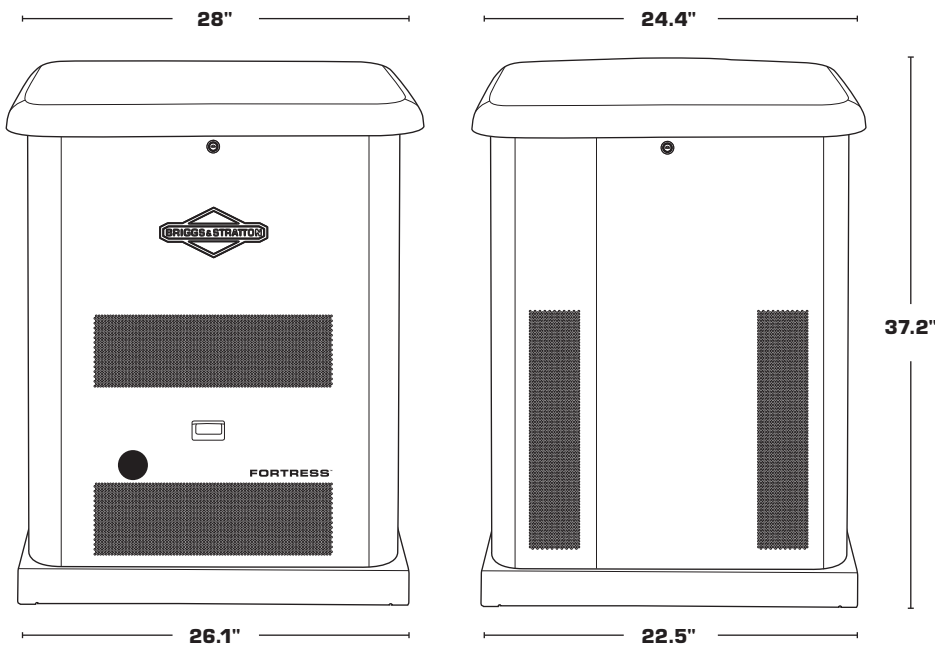
ADDITIONAL INFORMATION

OTHER FEATURES	
Enclosure Material	Galvanneal Steel with Corrosion Resistant Paint
Overcrank Protection	Yes
Engine Warm Up (sec)	20 or 50 Automatic Transfer Switch Controlled
Engine Cool Down (min)	1
Response Time (sec)	26 or 56 Automatic Transfer Switch Controlled
Monitoring Options	Basic Wireless Monitor InfoHub™ Monitor
Continuous Battery Charging	Yes

CERTIFICATION	
CARB Compliant	Yes
NFPA Approved	Yes
cUL Listed to CSA 22.2 NO 100-04	Yes
NEMA Compliant	Yes
EPA Certified Fuel System	Yes

WEIGHT AND DIMENSIONS	
Assembled Weight (lbs)	318
Overall Dimensions (in)	28 x 24.4 x 37.2
Packaged Weight (lbs)	345
Packaged Dimensions (in)	39 x 35.5 x 45

AVAILABLE ACCESSORIES		
Maintenance Kit		6035
Cold Weather Kit	Fortress	6404
	Briggs & Stratton	6348
Basic Wireless Monitor		6264
InfoHub		6260
Remote Status Monitor		6144





FUEL PIPE SIZE RECOMMENDATION CHART (CAPACITY IN THOUSANDS OF BTU/HOUR)

Natural Gas / Inlet Pressure less than 2 PSI / Pressure Drop 1/2" Water Column / Specific Gravity 0.60						
	1/2" pipe capacity	3/4" pipe capacity	1" pipe capacity	1-1/4" pipe capacity	1-1/2" pipe capacity	2" pipe capacity
20' Length*	118	247	466	957	1,430	2,760
40' Length*	81	170	320	657	985	1,900
60' Length*	65	137	257	528	791	1,520
80' Length*	56	117	220	452	677	1,300
100' Length*	50	104	195	400	600	1,160

Liquid Propane / Inlet Pressure 11" Water Column / Pressure Drop 1/2" Water Column / Specific Gravity 1.50						
	1/2" pipe capacity	3/4" pipe capacity	1" pipe capacity	1-1/4" pipe capacity	1-1/2" pipe capacity	2" pipe capacity
20' Length*	200	418	788	1,617	2,423	4,666
40' Length*	137	287	541	1,111	1,665	3,207
60' Length*	110	231	435	892	1,337	2,575
80' Length*	101	212	400	821	1,230	2,370
100' Length*	101	212	400	821	1,230	2,370

*Total length of piping from outlet of regulator to appliance furthest away.

ADDITIONAL INFORMATION

TRANSFER SWITCH SPECIFICATIONS

Prewired 16 Circuit	100 AMP	Model #071076
Standard 16 Circuit	100 AMP	Model # 071047
Symphony® II	100 AMP	Model # 071071
Symphony® II	150 AMP	Model # 071070
Symphony® II	200 AMP	Model # 071068
Voltage Rating	120/240	
Number of Protected Circuits	Select Circuit: 16	
	Symphony® II: Whole House	
UL Approved	Yes	
NEMA 3R Rated	Yes	



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**CALL TODAY FOR A FREE
 IN-HOME ESTIMATE!
 978.537.9473**

Disclaimer: Not for Prime Power or use where standby systems are legally required, for serious life safety or health hazards, or where lack of power hampers rescue of fire-fighting operations.

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