

# Home Standby – 7kW / 12kW / 15kW

## Air-Cooled Gas Engine Generator Sets

### Standby Power Rating

Model # 004673 – 7kW 60Hz

Model # 004674 – 12kW 60Hz

Model # 004675 – 15kW 60Hz

### INCLUDES:

- Flexible Fuel Line
- Composite Mounting Pad
- Natural Gas or LP Gas Operation
- UL 2200 Listed



## FEATURES

- **INNOVATIVE DESIGN & PROTOTYPE TESTING** are key components of GENERAC'S success in "IMPROVING POWER BY DESIGN." But it doesn't stop there. Total commitment to component testing, reliability testing, environmental testing, destruction and life testing, plus testing to applicable CSA, NEMA, EGSA, and other standards, allows you to choose GENERAC POWER SYSTEMS with the confidence that these systems will provide superior performance.
- **TEST CRITERIA:**
  - ✓ PROTOTYPE TESTED
  - ✓ SYSTEM TORSIONAL TESTED
  - ✓ NEMA MG1-22 EVALUATION
  - ✓ MOTOR STARTING ABILITY
- **SOLID-STATE, FREQUENCY COMPENSATED VOLTAGE REGULATION.** This state-of-the-art power maximizing regulation system is standard on all Generac models. It provides optimized FAST RESPONSE to changing load conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine.
- **SINGLE SOURCE SERVICE RESPONSE** from Generac's dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component. You are never on your own when you own a GENERAC POWER SYSTEM.
- **GENERAC TRANSFER SWITCHES, SWITCHGEAR AND ACCESSORIES.** Long life and reliability is synonymous with GENERAC POWER SYSTEMS. One reason for this confidence is that the GENERAC product line includes its own transfer systems, accessories, switchgear and controls for total system compatibility.

**GENERAC**®  
POWER SYSTEMS, INC.

# HOME STANDBY SPECIFICATIONS

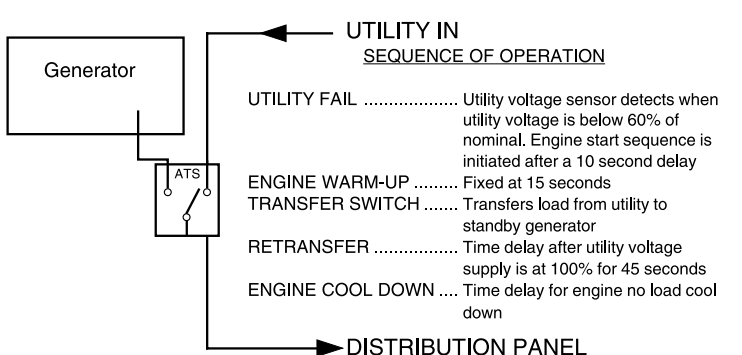
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<b>ENGINE</b>	<ul style="list-style-type: none"> <li>• Generac (OHVI) Design</li> <li>• "Spiny-lok" cast iron cylinder walls</li> <li>• Electronic ignition, spark advance and compression release</li> <li>• Full pressure lubrication system</li> <li>• Low oil pressure shutdown system</li> <li>• High temperature shutdown</li> </ul>	<p>Maximizes engine "breathing" for increased fuel efficiency. Cylinder walls run cooler, reducing oil consumption. Because heat is the primary cause of engine wear, the OHVI has a significantly longer life than competitive engines.</p> <p>Rigid construction and added durability provide long engine life.</p> <p>These features combine to assure smooth, quick starting every time.</p> <p>Superior lubrication to all vital bearings means better performance, less maintenance and significantly longer engine life.</p> <p>Superior shutdown protection prevents catastrophic engine damage due to low oil.</p> <p>Prevents damage due to overheating.</p>
<b>GENERATOR</b>	<ul style="list-style-type: none"> <li>• Revolving field</li> <li>• Skewed stator</li> <li>• Displaced phase excitation</li> <li>• Automatic voltage regulation</li> <li>• UL 2200 Listed</li> </ul>	<p>Allows for smaller, light weight unit that operates 25% more efficiently than a revolving armature generator.</p> <p>Produces a smooth output waveform for compatibility with electronic equipment.</p> <p>Maximizes motor starting capability. Provides more surge capability than brushless generator designs.</p> <p>Regulates the output voltage to <math>\pm 2\%</math> prevents damaging voltage spikes.</p> <p>For your safety</p>
<b>TRANSFER SWITCH (OPT)</b>	<ul style="list-style-type: none"> <li>• Fully Automatic</li> <li>• 100 or 200 Amp (options)</li> <li>• Remote Mounting</li> <li>• UL Listed</li> </ul>	<p>Transfers your vital electrical loads to the energized source of power.</p> <p>Required (order separately)</p> <p>Mounts near your existing distribution panel for simple, low cost installation.</p> <p>For your safety</p>
<b>MICROPROCESSOR CONTROL</b>	<ul style="list-style-type: none"> <li>• Manual/Auto/Off switch</li> <li>• Utility voltage sensing</li> <li>• Utility interrupt delay</li> <li>• Engine warm-up</li> <li>• Engine cool-down</li> <li>• Seven day exerciser</li> <li>• Timed Trickle Battery charger</li> <li>• Main Line Circuit Breaker</li> </ul>	<p>Selects the operating mode.</p> <p>Constantly monitors utility voltage, setpoints 60% dropout, 80% pick-up, of standard voltage.</p> <p>Prevents nuisance start-ups of the engine, set point approximately 10 seconds.</p> <p>Ensures engine is ready to assume the load, setpoint approximately 10 seconds.</p> <p>Allows engine to cool prior to shutdown, setpoint approximately 1 minute.</p> <p>Operates engine to prevent oil seal drying and damage between power outages.</p> <p>Maintains battery voltage to insure starting.</p> <p>Protects generator from overload.</p>
<b>UNIT</b>	<ul style="list-style-type: none"> <li>• Weather protective enclosure</li> <li>• Enclosed critical grade muffler</li> <li>• Small, compact, attractive</li> </ul>	<p>Ensures protection against mother nature. Hinged key locking roof panel for security. Electrostatically applied powder paint for durability.</p> <p>Quiet, critical grade muffler is mounted inside the unit to prevent injuries.</p> <p>Makes for an easy, eye appealing installation.</p>
<b>INSTALLATION KIT</b>	<ul style="list-style-type: none"> <li>• 1' Flexible Fuel Line</li> <li>• Composite Mounting Pad (Std)</li> </ul>	<p>Easy Installation</p>

## Home Standby – 7kW / 12kW / 15kW

GENERATOR	Model 004673 (7kW)	Model 004674 (12kW)	Model 004675 (15kW)
Rated Maximum Continuous Power Capacity (LP)	7,000 Watts*	12,000 Watts*	15,000 Watts*
Rated Maximum Continuous Power Capacity (NG)	6,000 Watts*	12,000 Watts*	13,000 Watts*
Rated Voltage	120/240	120/240	120/240
Rated Maximum Continuous Load Current			
120 Volts	50.0 NG/58.3 LP	83.3 NG/100.0 LP	108.3 NG/125.0 LP
240 Volts	25.0 NG/29.2 LP	41.6 NG/ 50.0 LP	54.2 NG/62.5 LP
Main Line Circuit Breaker	30 Amp	50 Amp	60 Amp
Phase	1	1	1
Number of Rotor Poles	2	2	2
Rated AC Frequency	60Hz	60Hz	60Hz
Power Factor	1	1	1
Battery Requirement (not included)	Group 26/26R 12 Volts and 350 Cold-cranking Amperes Minimum	Group 26/26R 12 Volts and 550 Cold-cranking Amperes Minimum	Group 26/26R 12 Volts and 550 Cold-cranking Amperes Minimum
Shipping Weight	425 Pounds	525 Pounds	535 Pounds
Dimensions (L" x W" x H")	48 x 24 x 28-1/4	48 x 24 x 28-1/4	48 x 24 x 28-1/4
<b>ENGINE</b>			
Type of Engine	GH 410	GENERAC OHVI V-TWIN	GENERAC OHVI V-TWIN
Number of Cylinders	1	2	2
Rated Horsepower	14.5 @ 3,600 rpm	26 @ 3,600 rpm	30 @ 3,600 rpm
Displacement	410cc	992cc	992cc
Cylinder Block	Aluminum w/Cast Iron Sleeve	Aluminum w/Cast Iron Sleeve	Aluminum w/Cast Iron Sleeve
Valve Arrangement	Overhead Valve	Overhead Valve	Overhead Valve
Ignition System	Solid-state w/Magneto	Solid-state w/Magneto	Solid-state w/Magneto
Compression Ratio	8:6:1	9:5:1	9:5:1
Starter	12 Vdc	12 Vdc	12Vdc
Oil Capacity Including Filter	Approx. 1.7 Qts	Approx. 1.7 Qts.	Approx. 1.7 Qts.
Operating RPM	3,600	3,600	3,600
Fuel Consumption			
Natural Gas	cu.ft./hr. (BTU/Hr)		
1/2 Load	74 (70,300)	104 (98,800)	148.5 (141,075)
Full Load	105 (99,750)	168 (159,600)	240 (228,000)
Liquid Propane	ft <sup>3</sup> /hr(gal/hr)		
1/2 Load	33/0.91	44.5(1.2)	63.2(1.73)
Full Load	44.1/1.21	71.8(1.97)	102.3(2.8)
<b>CONTROLS</b>	<ul style="list-style-type: none"> <li>- Mode Switch</li> <li>-Auto</li> <li>-Off</li> <li>-Manual/Test (start)</li> </ul> <ul style="list-style-type: none"> <li>- Automatic start and stop on utility failure and return. 7 day exerciser. Cyclic cranking 7 seconds on, 7 seconds rest for 90 seconds maximum.</li> <li>- Stops unit. Power is removed from controller. Battery charger will still operate.</li> <li>- Start with starter control, unit will stay on. If utility fails, transfer will take place.</li> </ul>		

## HOME STANDBY TRANSFER SWITCH (ORDERED SEPARATELY)



- Transfer Switch Rating ..... 100/200 Amps
- Number of Poles ..... 2
- UL Listed ..... Yes, UL 1008
- Enclosure..... NEMA 1 - 100 AMP
- ..... NEMA 3R - 200 AMP
- Interrupt Rating ..... 10,000 Amps
- Maximum Switching Time ..... 160 Milliseconds
- Maximum Voltage ..... 240 Volts
- Exercise Time ..... Automatic 15 Minutes Each Week
- Dimensions H,W,D (Weight)
- 100A Model 4678 ..... 20X14X6 (26 lbs.)
- 200A Model 4635 ..... 20X14X7.5 (50 lbs.)

Rating definitions - Standby: Applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. (All ratings in accordance with BS5514, ISO3046 and DIN6271). Prime (Unlimited Running Time): Unit not recommended for prime power applications. Applicable for supplying electric power in lieu of commercially purchased power. Prime power is the maximum power available at variable load. A 10% overload capacity is available for 1 hour in 12 hours. (All ratings in accordance with BS5514, ISO3046, ISO8528 and DIN6271). \* Maximum wattage and current are subject to and limited by such factors as fuel Btu content, ambient temperature, altitude, engine power and condition, etc. Maximum power decreases about 3.5 percent for each 1,000 feet above sea level; and also will decrease about 1 percent for each 12° C (10° F) above 15.5° C (60° F).

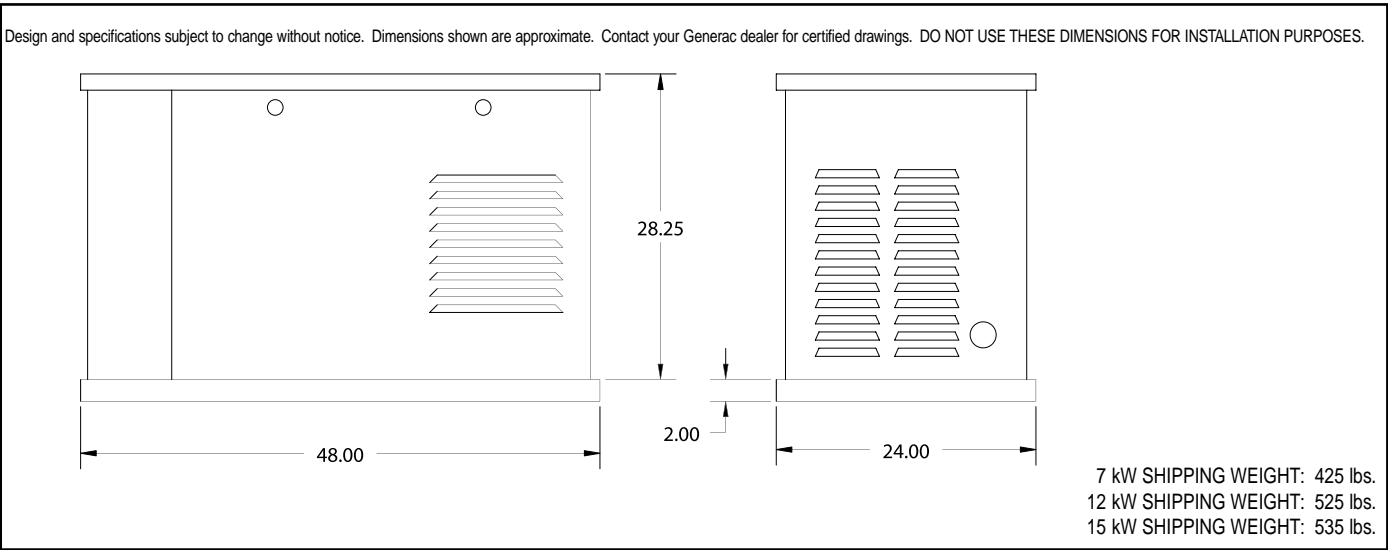
# STANDARD ENGINE & SAFETY FEATURES

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- High Temperature Automatic Shutdown
- Low Oil Pressure Automatic Shutdown
- Overspeed Automatic Shutdown (Solid-state)
- Crank Limiter (Solid-state)
- Oil Drain Extension
- Rubber-Booted Engine Electrical Connections
- Fuel Lockoff Solenoid
- Secondary Fuel Regulator (N.G. and L.P.)
- Battery Charge Alternator
- Battery Cables
- Battery Tray
- Vibration Isolation of Unit to Mounting Base
- 12 Volt, Solenoid-Activated Starter Motor
- Air Cleaner
- Fan Guard
- Control Console
- Muffler Guard
- Flexible Fuel Lines
- Critical Exhaust Silencer
- Battery Trickle Charger
- Main Line Circuit Breaker
- Weather Protective Enclosure (Locking Type)

# HOME STANDBY CONTROL FEATURES

<b>Home Standby Control Console</b> Manual/Auto/Off switch Fault indicator lamp Fuse (panel overload) Set exercise time switch	<b>Home Standby Microprocessor Controls</b> Automatic voltage regulation Utility voltage sensing Utility interrupt delay (10-second setpoint) Engine warm-up (10-second setpoint) Engine cool-down (1-minute setpoint) Seven-day exerciser	<b>Distributed by:</b>
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