



Alternative Power Sales and Rental
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Sizing Report

Sizing Information for:

Mike Shrieves
 70 Hazelwood Rd
 Lillington, NC 27546

Rated Nominal Voltage 240
 Generator Fuel Choice Propane
 Sizing Method (NEC 220) Part IV
 (Part III required for selected circuit implementation, Both valid for whole house)

General Lighting & Receptacles		Load (kW)
Square Footage Being Covered (ft ²)	2400	7.2
Small Appliance Circuits (20 amps)		
Kitchen Circuits	2	3
Laundry Circuits	1	1.5

Fixed-In-Place Appliances & Motors	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
Dryer		5.5	0	X	5.5
Microwave		1.3	0		1.3
Range - Oven w/ Top		8.5	0	X	8.5
Water Heater		5.0	0	X	5.0
Dishwasher		1.5	0		1.5
Freezer		0.8	0		0.8
Refrigerator		0.8	0		0.8

Air Conditioning & Cooling	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)

Heating & Heat Pumps	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
Heat Pump (4 Ton)	X	4.0		X	0.0
Heat Pump Electric Element	X	5.0		X	0.0

Transient Requirement	Estimated (LRA)	Actual (LRA)	Utilized (LRA)
Largest Motor's Starting Amps (LRA)	115	130	130

	Load (kW)	NEC Required
Summary NEC Load		
General Lighting & Receptacles	11.7	
Fixed-in-Place Appliances & Motors	23.3	
Sum of all General Loads	35.0	20.0
Cooling	0.0	0.0
Heating (w/demand factors)	0.0	0.0
Larger of Heating & Cooling	0.0	0.0
Sizing based on requirements of NEC Article 220, Part IV		20.0
Elevation		0 ft
Minimum size generator for motor starting requirements		18
BTU load required		355000

22 kW Generac Model Generator Recommended