



Alternative Power Sales and Rental
 512 OLD APEX ROAD
 CARY, NC 27511
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 www.alternativepower.com

Sizing Report

Sizing Information for:
 Tony Shelton
 2031 McDougald 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)	1600	4.8
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		X	5.5
Microwave		1.3			1.3
Range - Oven w/ Top		8.5		X	8.5
Water Heater	X	5.0		X	0.0
Dishwasher		1.5			1.5
Freezer		0.8			0.8
Refrigerator		0.8			0.8
Well Pump		1.5			1.5
Hot Tub (Small)	X	6.0		X	0.0

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 (2.5 Ton)	X	2.5		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)	72	73	73

	Load (kW)	NEC Required
Summary NEC Load		
General Lighting & Receptacles	9.3	
Fixed-in-Place Appliances & Motors	19.9	
Sum of all General Loads	29.2	17.7
Cooling	0	0
Heating (w/demand factors)	0	0
Larger of Heating & Cooling	0	0
Sizing based on requirements of NEC Article 220, Part IV		17.7
Elevation		0 ft
Minimum size generator for motor starting requirements		11
BTU load required		324000

20 kW Generac Model Generator Recommended