



Alternative Power Sales and Rental
 512 OLD APEX ROAD
 CARY, NC 27511
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Sizing Report

Sizing Information for:
 Ron St Clair
 25 Forrest Hills Court
 Sanford, NC 27332

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)	2500	7.5
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
Water Heater		5.0		X	5.0
Dishwasher		1.5			1.5
Freezer		0.8			0.8
Refrigerator		0.8			0.8
Refrigerator		0.8			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 (3 Ton)	X	3.0		X	0.0
Heat Pump Electric Element	X	5.0		X	0.0
Heat Pump (2.0 Ton)	X	2.0		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)	86	83	83

	Load (kW)	NEC Required
Summary NEC Load		
General Lighting & Receptacles	12	
Fixed-in-Place Appliances & Motors	15.7	
Sum of all General Loads	27.7	17.1
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		17.1
Elevation		0 ft
Minimum size generator for motor starting requirements		11
BTU load required		324000

20 kW Generac Model Generator Recommended