



POWERMASTER ELECTRIC, INC.
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Sizing Report

Sizing Information for:

Regina Larson
 34 Forest Hills Ct
 Sanford, NC, 27332

Rated Nominal Voltage 120 / 240 Single Phase
 Generator Fuel Choice Liquid Propane
 Sizing Method (NEC 220) Part IV

General Lighting & Receptacles		Load (kW)
Square Footage Being Covered (ft ²)	1500	4.50
Small Appliance Circuits (20 amps)		
Kitchen Circuits	2.00	3.00
Laundry Circuits	1.00	1.50

Fixed-In-Place Appliances & Motors	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
Dishwasher		1.50	12.50		1.50
Dryer		5.50	22.92	X	5.50
Freezer		0.80	6.67		0.80
Garage Door Opener		0.60	5.00		0.60
Microwave		1.25	10.42		1.25
Refrigerator		0.80	6.67		0.80
Water Heater		5.00	20.83	X	5.00

Air Conditioning & Cooling	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
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Heating & Heat Pumps	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
Heat Pump (2.5 Ton)		2.50	10.42	X	2.50
Heat Pump Electric Ele...		5.00	20.83	X	5.00

Transient Requirement	Estimated (LRA)	Actual (LRA)	Utilized (LRA)
Largest Motor's Starting Amps (LRA)	71.9	68.00	68.0

Summary NEC Load	Load (kW)	NEC Required
General Lighting & Receptacles	9.00	
Fixed-in-Place Appliances & Motors	15.45	
Sum of all General Loads	24.45	15.780
Cooling	0	0
Heating (w/demand factors)	7.50	5.7500
Larger of Heating & Cooling	7.50	5.7500

Sizing based on requirements of NEC Article 220: Part IV	21.5300
Elevation	0
Minimum size generator for motor starting requirements	10
BTU load required	355000

22 kW Generac Model Generator Recommended