



POWERMASTER ELECTRIC, INC.  
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 STE 101  
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### Sizing Report

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 <sup>2</sup> )	2763	8.289
Small Appliance Circuits (20 amps)		
Kitchen Circuits	1	1.5
Laundry Circuits	0	0

	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
<b>Fixed-In-Place Appliances &amp; Motors</b>					
Water Heater		5.0		X	5.0
Refrigerator		0.8			0.8

	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
<b>Air Conditioning &amp; Cooling</b>					

	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
<b>Heating &amp; Heat Pumps</b>					

Transient Requirement	Estimated (LRA)	Actual (LRA)	Utilized (LRA)
Largest Motor's Starting Amps (LRA)	21	0	21

	Load (kW)	NEC Required
<b>Summary NEC Load</b>		
General Lighting & Receptacles	9.8	
Fixed-in-Place Appliances & Motors	5.8	
Sum of all General Loads	15.6	12.2
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		12.2
Elevation		0 ft
Minimum size generator for motor starting requirements		7
BTU load required		225000

13 kW Generac Model Generator Recommended