



JL Britt Electric, Inc.  
 590 Edwards Store Road  
 Mount Olive, NC 28365  
 (919) 920-2765

Sizing Report

Sizing Information for:  
 Billy Messer  
 1214 Delma Grimes Rd  
 Coats, NC 27521

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> )	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)
Water Heater		5.0		X	5.0
Microwave		1.3			1.3
Range - Oven w/ Top		8.5		X	8.5
Freezer		0.8			0.8
Dishwasher		1.5			1.5
Refrigerator		0.8			0.8
Dryer		5.5		X	5.5

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 (4 Ton)	X	4.0		X	0.0

Transient Requirement	Estimated (LRA)	Actual (LRA)	Utilized (LRA)
Largest Motor's Starting Amps (LRA)	115	137	137
Summary NEC Load	Load (kW)	NEC Required	
General Lighting & Receptacles	12		
Fixed-in-Place Appliances & Motors	23.4		
Sum of all General Loads	35.4	20.1	
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		20.1	
Elevation		0 ft	
Minimum size generator for motor starting requirements		20	
BTU load required		350000	

22 kW Generac Model Generator Recommended