

	Qty		VA		Demand VA	
220.12 General Lighting & Receptacle Load (Sq Ft x 3 VA)	Qty	X	3	=	VA	
220.52(A) Min (2) Small Appliance Circuits @ 1,500 VA Each	Qty	X	1,500	=	VA	
220.52(B) Min (1) Laundry Circuit @ Min 1,500 VA Each	Qty	X	1,500	=	VA	
Total CONNECTED General Lighting & Receptacles					VA	
220.42 Apply The Demand Factor Per Table 220.42						
	VA	%		=	Demand VA	Neutral VA
Take The 1st 3,000 VA of (A) @ 100%	VA	X	100%	=	VA	
Take The Greater of 117,000 VA or The Balance of (A) @ 35%	VA	X	35%	=	VA	
Take The Remainder Of The VA of (A) @ 25%	VA	X	25%	=	VA	
DEMAND For General Lighting & General Use Receptacles	VA				A	VA
					B	VA
220.53 Appliances Fastened In Place - Copy Sub-Totals From Page 2					C	VA
220.54 Dryer(s), 5,000 VA Min, 70%	Qty	VA	X	%	D	VA
220.55 Ranges, Cooktops, Ovens, Copy Sub-Totals From Page 3, 70 % On Neutral, 208/240V					E	VA
220.60 Larger of the Heating @ 100% or Air Conditioning @ 100%		VA	A/C		F	VA
220.50 25% Of Your Largest Motor					G	VA
Other Not Above (Explain)					H	VA
Add A + B + C + D + E + F + G = Your Total Demand Load In VA					I	VA
310.15(B)(7) Enter Your Line To Line Volts ----->		Volts	/	VA = Amps	J	Amps
220.6(A) Next Size Up Rule For The Main Breaker					K	%
310.15(B)(7) The Ungrounded Conductors Can Be Sized 83% Of The OCPD If The Service Serves Entire Load					L	Amps
Multiply (J) X (K) To Determine Your Minimum Ungrounded Conductor Ampacity					M	%
Take (J) Minus (I) Divide By (I) = Percentage Increase of Main Breaker Amps vs Demand Load					N	Amps
Multiply (I) x (1 + M%) = Increased Size Of Your Neutral To Match % Change Of Ungrounded						

Select Size & Type Of Your Ungrounded Conductors 310.15(B)(7)

Select Size & Type Of Your Neutral Conductor 220.61, 250.102(C)(1)

Select Size & Type Of Your Grounding Electrode Conductor For The Service 250.66

Select Size & Type Of Your Equipment Grounding Conductor For The Feeder 250.122

Prepared By: Name, E-Mail, Phone & Date

Customer: Name, Address, Email, Phone & Date

Customer: Name, Address, Email, Phone & Date

Customer Is The ()Owner ()Tenant ()Property Manager ()Other:

220.53

Appliances Fastened In Place (4 or More Apply 75% Demand Factor)

Page 2 of 3

	Qty	Nameplate VA	Neutral %		Total VA	Neutral VA
Attic Fans	Qty	VA	%	X =	VA	VA
Bathroom Heater / Exhaust Fan	Qty	VA	%	X =	VA	VA
Central Vacuum	Qty	VA	%	X =	VA	VA
Compactor	Qty	VA	%	X =	VA	VA
Dishwasher	Qty	VA	%	X =	VA	VA
Disposal	Qty	VA	%	X =	VA	VA
Hot Tub	Qty	VA	%	X =	VA	VA
Humidifier	Qty	VA	%	X =	VA	VA
Hydro-Massage Bath-Tub	Qty	VA	%	X =	VA	VA
Instant Hot Tap Sink	Qty	VA	%	X =	VA	VA
Kitchen Exhaust Hood	Qty	VA	%	X =	VA	VA
Microwave - Fixed In Place	Qty	VA	%	X =	VA	VA
Pool Pump	Qty	VA	%	X =	VA	VA
Sump Pump	Qty	VA	%	X =	VA	VA
Vehicle Charger	Qty	VA	%	X =	VA	VA
Water Heater	Qty	VA	%	X =	VA	VA
Well Pump	Qty	VA	%	X =	VA	VA
	Qty	VA	%	X =	VA	VA
	Qty	VA	%	X =	VA	VA
	Qty	VA	%	X =	VA	VA
	Qty	VA	%	X =	VA	VA
	Qty	VA	%	X =	VA	VA
	Qty	VA	%	X =	VA	VA
	Qty	VA	%	X =	VA	VA
	Qty	VA	%	X =	VA	VA
	Qty	VA	%	X =	VA	VA
	Qty	VA	%	X =	VA	VA

Total Appliances ----->

Qty

Total Ungrounded Connected Load ----->

VA

4 Or More Appliances, Multiply Ungrounded Only By 75%, Otherwise 100%-->

%	VA
---	----

