

Wire Size Selection for House wiring

N

1500 watt --- 1.5 Sq mm

4500 watt --- 2.5 Sq mm

8000 watt --- 4 Sq mm

E

Switch Board – 1 Sq mm

Main Distribution Board - 4 , 6 , 10 Sq mm

Home Appliances – 2.5 Sq mm



Geyser --- 1.5 Sq mm



**Washing Machine ---
2.5 Sq mm**



**4 / 6 Sq
mm**



**1 Sq
mm**



**1 Sq
mm**



**2.5 Sq
mm**



4 Sq mm



**2.5 Sq
mm**

Red Wire For Phase

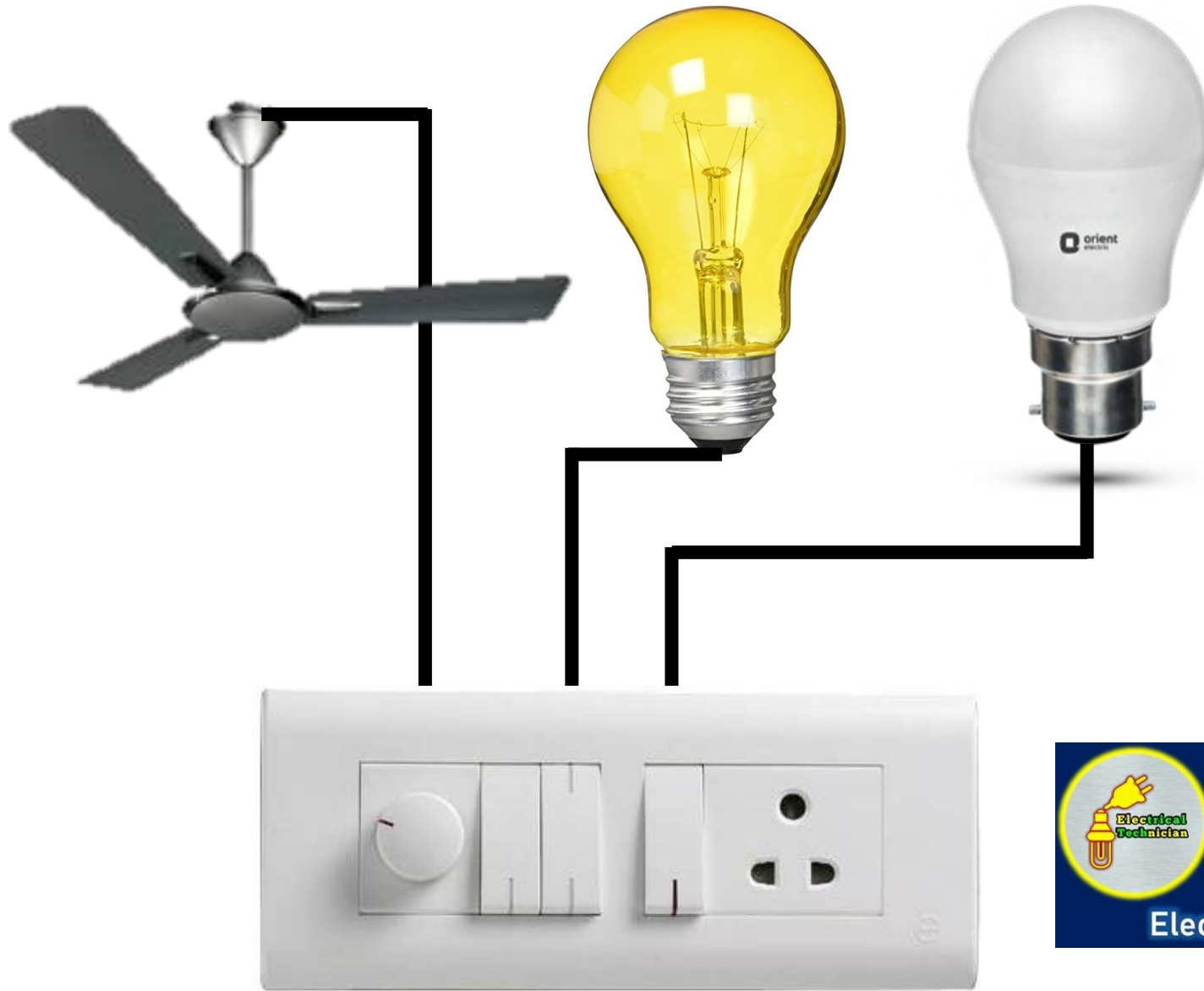
Black Wire For Neutral

Green Wire For Earthing



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Light And Fan

250 watt --- 0.5 Sq mm

375 watt --- 0.75 Sq mm

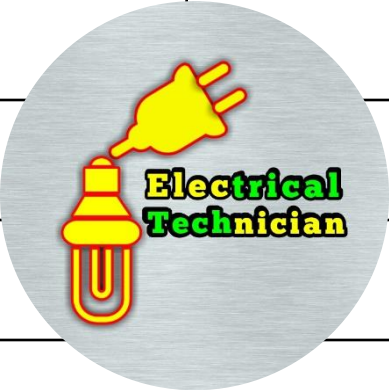
500 watt --- 1 Sq mm

750 watt --- 1.5 Sq mm

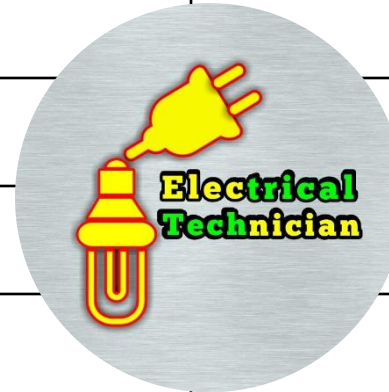


Light And Fan 1 Sq mm

Lcd tv	100-250	W
Plasma tv	345	W
Radio	10	W
Satellite dish	30	W
Stereo	60	W
Stereo portable	20	W
Tv box	23	W
Game console generic	50	W
Dvd player	15	W
Wii	45	W
Play station 2	50	W
Tv lcd 45 inch	133	W



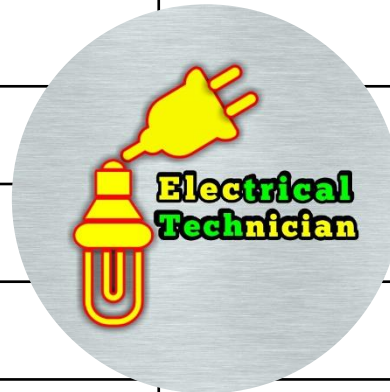
Tv led 45 inch	88	W
Tv plasma 45 inch	288	W
Tv lcd 32 inch	55	W
Tv led 32 inch	61	W
Tv plasma 32 inch	119	W
Tv lcd 19 inch	50	W
Tv led 19 inch	50	W
Tv plasma 19 inch	100	W
Cd player	10	W
Amplifier	20-70	W
Television, rear projection	200	W
Tv standby	6	W





Automatic defrost	700	W
Blender	300	W
Broiler	1200-2000	W
Can opener	100	W
Carving knife	100	W
Coffee machine/ espresso machine	1000-1500	W
Coffee maker	800	W
Deep fat fryer	1,448	W
Dishwasher	1200-1500	W
Electric kettle	2000	W
Food blender	300	W
Food mixer	127	W
Frying pan	1200	W
Garbage disposal	445	W
Hot plate	1200	W
Manual defrost	540	W
Microwave	600-1500	W

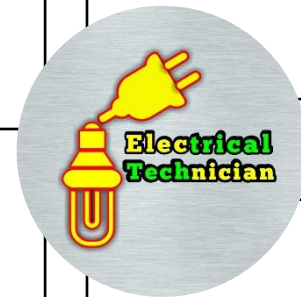
Oven	2000-3000	W
Popcorn popper	250-1400	W
Roaster	1,333	W
Sink waste disposal	450	W
Slow cooker	200	W
Toaster	800-1500	W
Toaster oven	1000-1500	W
Trash compactor	400	W
Waffle iron	1200	W
Freezer new	$135/3=45$	W
Freezer old	$330/3=110$	W
Fridge new	$60/3=20$	W
Fridge old	$115/3=55$	W
Clock	1	W



Electric blanket	100-200	W
Heating pad	65	W
Waterbed heater	400	W
Night light	25-jan	W
Clock radio	1	W

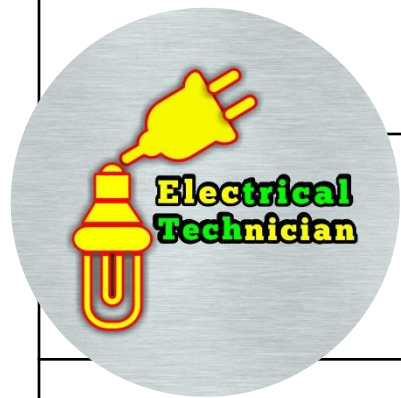


Curling iron	90	W
Electric shaver	15-20	W
Hair blow dryer	1000-1500	W
Jacuzzi/spa pump	1300	W
Power shower	240	W
Shaver	15	W
Toothbrush	1	W
Water pik	100	W

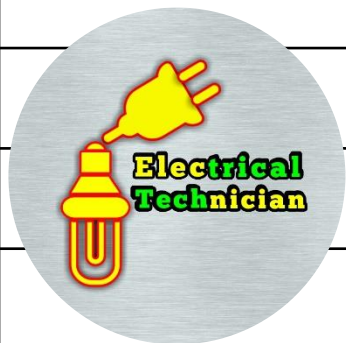


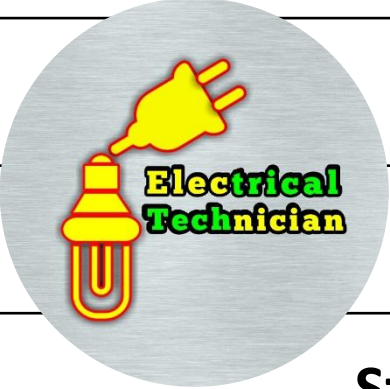
Computer desktop variant	50-200	W
Laptop	20-50	W
Computer monitor lcd or led	50	W
Mp3 player – recharge	0,25-0,45	W
Printer	100	W
Xbox 360	160	W
Iphone	4	W
Phone cordless	3	W
Printer	5	W
Modem/adsl cable	7	W
Mobile phone	4	W
Router wifi	12-24w	W

Clothes dryer	2000-4000	W
Clothes dryer gas heated	300-400	W
Clothing iron	1100	W
Vacuum cleaner	200-700	W
Washing machine	500	W
Tumbler dryer	3000-5000	W

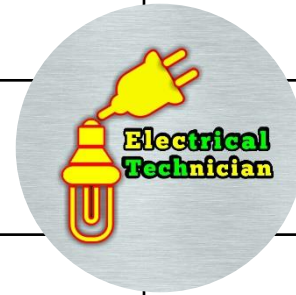


Band saw	1100	W
Belt sander 3 inch	1000	W
Chain saw	1100	W
Circular saw 7 inch	900	W
Circular saw 8 inch	1400	W
Disc sander 9 inch	1200	W
Drill	250-1000	W
Floor polisher	305	W
Garage door opener	350	W
Hedge trimmer	450	W
Lawnmower	1000-1400	W
Weed eater	500	W
Strimmer	300-400	W



Air conditioner 1 room	1100	W
Air conditioner central	5000	W
 Dehumidifier	350	W
Humidifier	200-1000	W
Stock tank heater	100	W
Submersible pool pump	400	W
Water heater	2500	W
Water heater with quick recovery	4500	W
Water softener	2	W

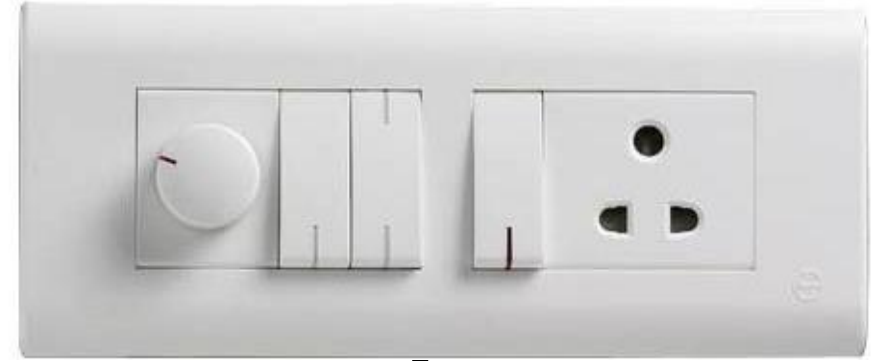
Well pump	500-2500	W
Fan attic	370	W
Fan ceiling or circulating	10-80	W
Fan portable	100	W
Fan rollaway	171	W
Fan window	200	W
Furnace blower	300-1000	W
Portable heater	1500	W





Heat lamp	250	W
Sewing machine	75-100	W
Sun lamp	279	W
Fan for table	10 to 25	W
Engine block heater	150-1000	W
Car stereo	8	W

Wire loop from One Switch board to Another



500 watt --- 1 Sq mm

750 watt --- 1.5 Sq mm

2000 watt --- 2.5 Sq mm

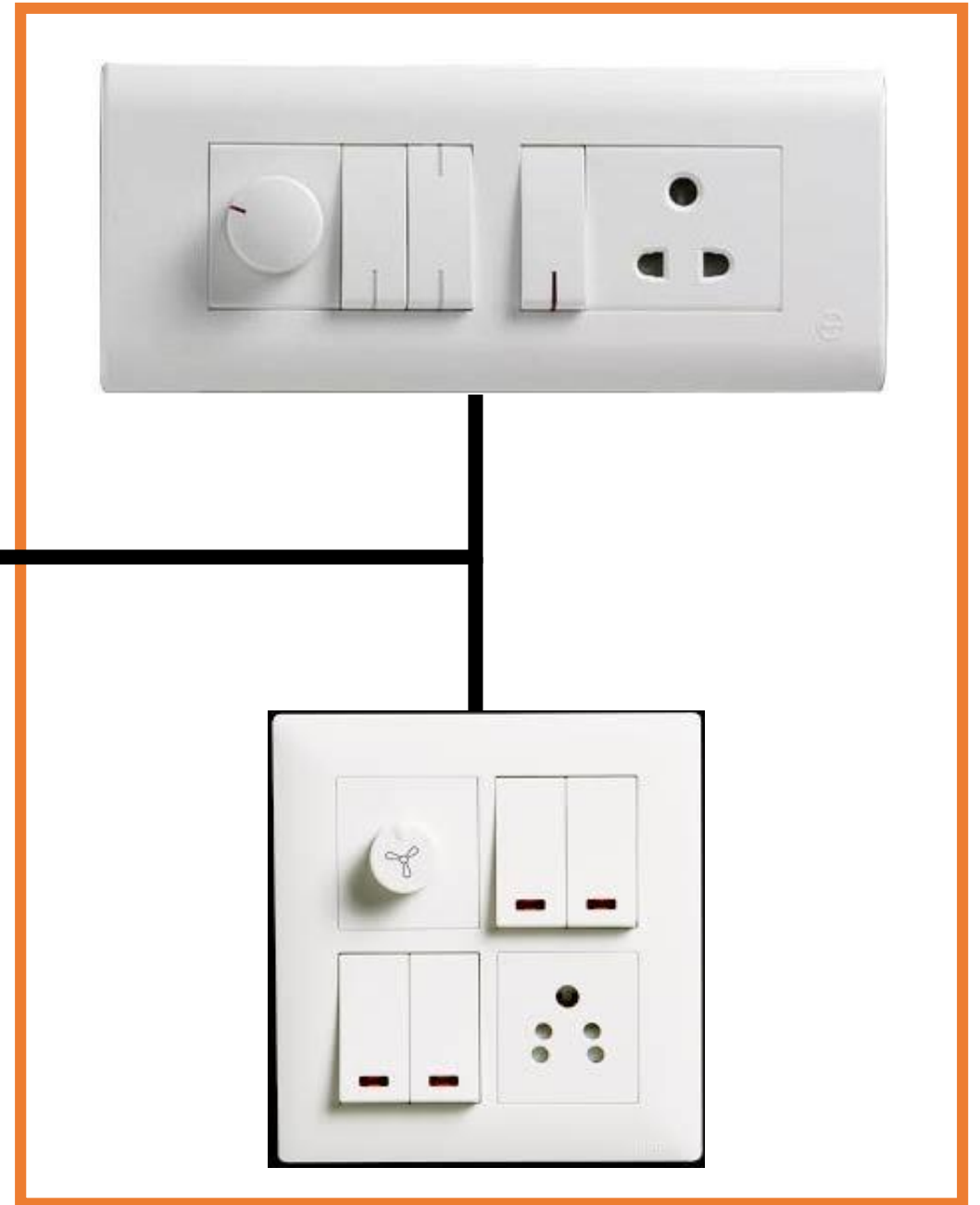
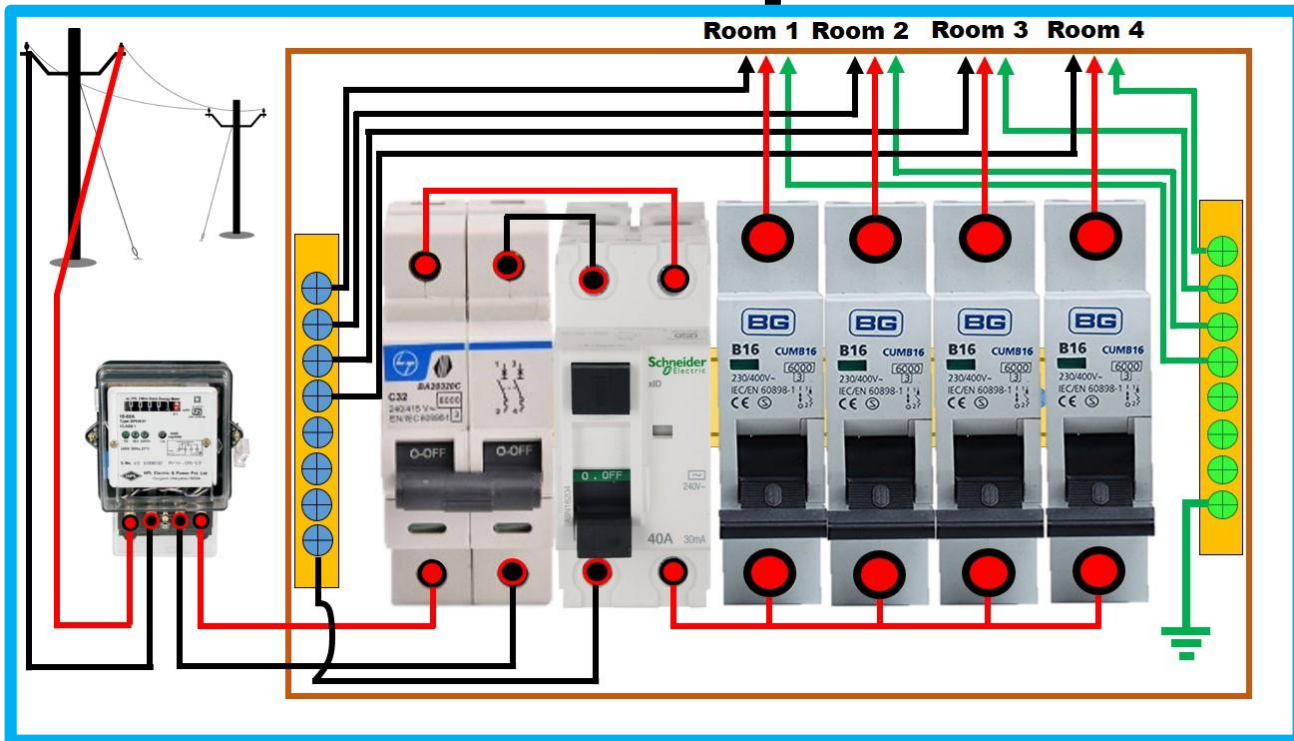


Distribution board to Room

1000 watt --- 1.5 Sq mm

2000 watt --- 2.5 Sq mm

5000 watt --- 4 Sq mm



Power Socket Wire Size



1500 watt --- 1.5 Sq mm

4500 watt --- 2.5 Sq mm

6000 watt --- 4 Sq mm





Wire Size for Home Appliances



Geyser --- 1.5 Sq mm

Heater --- 1.5 Sq mm



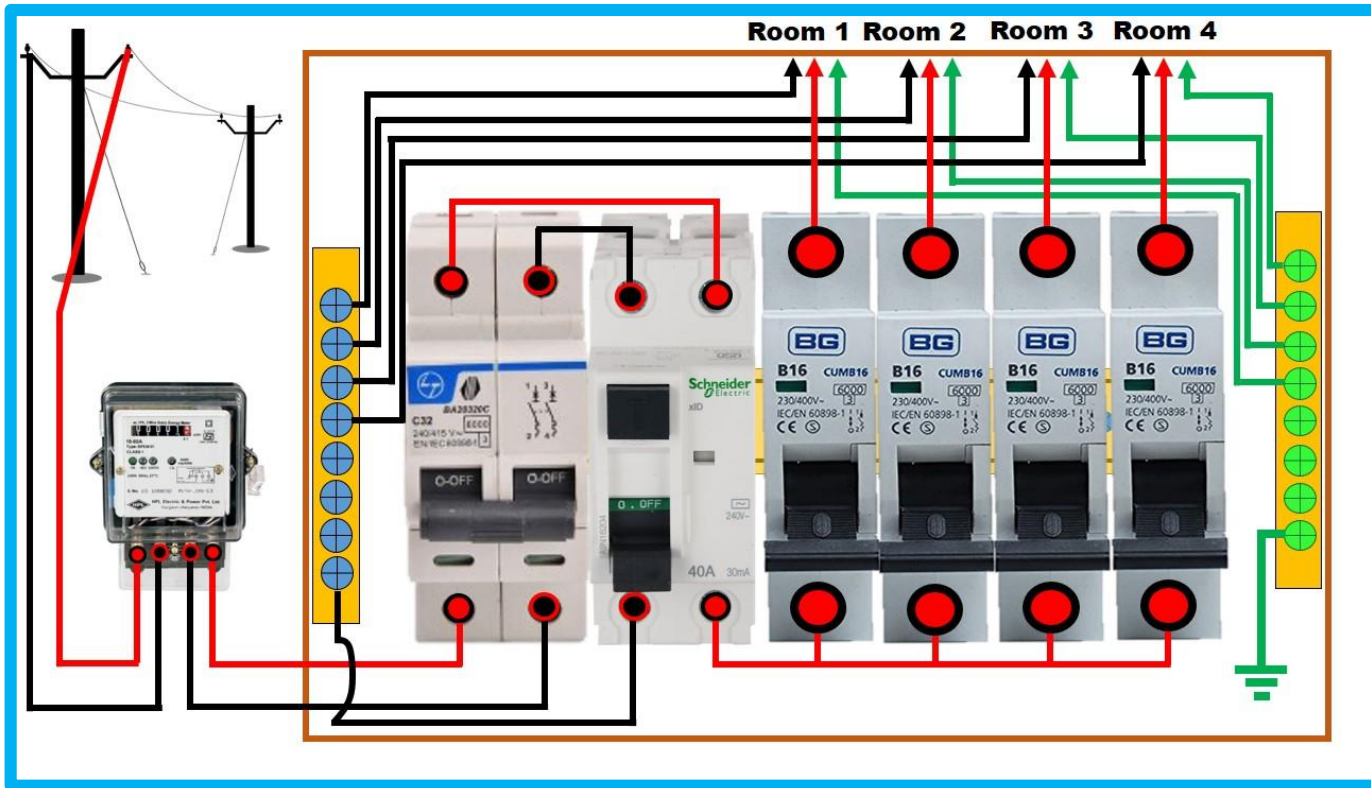
1.5 Ton --- 2.5 Sq mm

2 Ton --- 4 Sq mm



Washing Machine --- 2.5 Sq mm

Energy meter to Distribution board



4000 watt --- 4 Sq mm

6000 watt --- 6 Sq mm

10,000 watt --- 10 Sq mm





1500 watt --- 1.5 Sq mm

4500 watt --- 2.5 Sq mm

8000 watt --- 4 Sq mm



Switch Board – 1 Sq mm

Main Distribution Board - 4 , 6 , 10 Sq mm

Home Appliances – 2.5 Sq mm



Wire size for UPS / Inverter



1 KVA – 1 Sq mm

1.5 KVA – 1.5 Sq mm

2 - 3 KVA – 2.5 Sq mm

4 - 5 KVA – 4 Sq mm



**4 / 6 Sq
mm**



**1 Sq
mm**



**1 Sq
mm**

**2.5 Sq
mm**



**2.5 Sq
mm**

4 Sq mm





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0.50 Sq mm

5 Amp

0.75 Sq mm

10 Amp

1.00 Sq mm

15 Amp

1.50 Sq mm

18 Amp

2.50 Sq mm

25 Amp

4.00 Sq mm

35 Amp

6.00 Sq mm

46 Amp

