Your how-to guide to basic electrical

Rules of Electricity

OHM'S LAW

P = Power = Wates

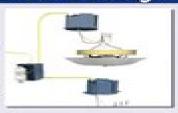
I = Intensity of Current Flow = Amos

E = Electromotive Force

= Wolte

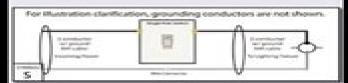
R = Resistance (Ω or Ohms)

Most of Chm's Law can be solved by remembering two words: pie and ear (in this case, spelled "eir").



EX: To find the formula for the missing value, place your finger over that symbol.





STEPS

Use to switch light in one place.

 Supply power to switch using 2 conductor with ground NM cable

(14/2 with ground for 15-amp circuits and 12/2 with ground for 20-amp circuits; a use 120-volt circuit only)

Supply power to light with same size NM cable.

 Join neutrals in switch box with wire connectors (white wires).

 Join grounds in switch box with grounding, connector and connect grounding wire to switch.

DID YOU KNOW?

To save energy

- Use compact fluorescent or LED builts in place of incandescent builts.
- ✓ Turn off or unplug appliances not being used.
 ✓ Wash circles in cold water rather than box
- Wash clothes in cold water rather than hot water.
- ✓ Slightly turn up refrigerator temperature.
 ✓ Have a tune-up on heating and cooling appliances.

(HINT: These are among the largest consumers of

✓ Install a timer on water heater. (HINT: Only heats water during periods of usage.)

Basic Calculations

COST (IN CENTS) PER HOUR - BASED ON APPLIANCE

UTILITY COSTS IN CENTS PER KILOWATT HOUR (KW/HR)

HOW TO CALCULATE THE MONTHLY ELECTRICITY COST FOR APPLIANCES

STRES

- Take the wattage (NOT kilowatts) of your appliance and divide it by 1,000.
- Multiply the product of step 1 by the cost of electricity per KW/HRR from your power supplier.
 (TIP: This is the cost per hour to operate the

appliance.)

Nullinium the cost per bour (stee 2) by the

- Multiply the cost per hour (step 2) by the estimated number of hours the appliance will be used per day.
- Multiply cost per day (result of step 3) by number of days in the month (use 30 as an average) to determine the monthly cost of using a particular appliance.

SAMPLE CALCULATION OF COST TO OPERATE A 4,500-WATT ELECTRIC WATER HEATER

4,500 watts = 1,000 = 4.5 KW 4.5 x .00 = 50.27 per hour 50.27 x 4 hours per day = 51.08 \$1.08 per day x 30 days = \$32.40 per month to operate (based on 4 hours per day use and electricity costs Main breaker is not required for subpanels if proper breaker is used for supply of the subpanel.

13

20

78

5.2

15.6

19.5

23.4

26.0

54.6

546 5

15

23

9

6.0

180.0

22.5

27.0

30.0

63.0

67.5

104.0 120.0

CONDUCTOR & CABLE SIZES FOR TYPICAL HOUSEHOLD CIRCUITS

The same

.14

54

Television (400 W)

3.6

10.0

13.5

16.2

18.0

37.8

72.0

meandescent built

Riange (6000 VV)

Clothes Dryer (4200 W)

.17

.66

4.4

12. 2

16.5

19.8

22.0

46.2

40.5

88.0

*Comparable light output of a 60 W

amirno (15200 W)

100

42

2.8

10.5

34.5

SUBPANEL WIRING

STEPS

Supply subpanels with four conductors.

Bond ground bar to panel enclosure.

(TIP: Two "hots" [black or red], one neutral [white] and one ground (green or bare).)

- Isolate grounds (green or bare) and neutrals (white wires) at subpanels.
- Only install one neutral (white wire) or 1 "hot" (black or red wire) under each terminal.
- DO NOT bond neutral bar to panel enclosure.
- Main breaker is not required for subpanels if proper breaker is used for supply of the subpanel.

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