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P_{input_w} = input electrical power (watts) or alternatively. $\mu = 746 P_{\text{hp}} / (1.732 V I \text{ PF})$ (6b) Electrical Motor - Power. $P_{\text{3-phase}} = (U I \text{ PF } 1.732) / 1,000$ (7) where. $P_{\text{3-phase}}$ = electrical power 3-phase motor (kW) PF = power factor electrical motor. Electrical Motor - Amps

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Formula Single phase : Volts x Amperes x PF x Eff Horsepower —
745.7 Watts = Volts x Amperes x PF Volts x Amperes x PF
Kilowatts = 1000 Volts x Amperes x PF x hours Kilowatt-hours =
1000 Volts x Amperes KVA = Eff 1 000 Kilo-Volts-Amperes Power
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the following formulas: $E = I \times R$ $I = E / R$ $R = E / I$ $P = E \times I$ Direct Current Electricity An electrical current can flow in either of two

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directions through a conductor. If it flows in only one direction whether steadily or in pulses, it is called direct current (DC). Almost all the projects in class will be powered by DC electricity. In order to be

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acceleration Apparent power Average load Battery capacity
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Resistance, Power [The Mountain Analogy]

Basics of Electrical Engineering

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USEFUL ELECTRICAL FORMULAS TO OBTAIN Single Phase* Three
Phase* Kilowatts $v \times I \times PF \times 1000$ 1.732 $\times v \times I \times PF \times 1000$ kVA $v \times I$
1000 1.732 v Horsepower required when generator kW is known
(if generator efficiency is unknown use 0.93) kW $0.746 \times$
Efficiency (Generator) kW $0.746 \times$ Efficiency (Generator) kW
input when motor HP is known (if motor ...

USEFUL ELECTRICAL FORMULAS

Ohms = volts / amperes. Ohms = volts² / watts. Ohms = watts /
amperes².

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