Technical Notes

Technical notes may change over time. See the document catalog for the current document date.

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Subject

Calculating and converting power components and measurements

Power Formulas

Establishing size of a transformer

Volts (V) x Amps (A) = VA (eg; 208VAC X 100 Amps = 20KVA)

Converting VA to KVA

Divide VA x 1000

(eg; 1000 VA = 1KVA)

Converting KVA to Watts

Multiply KVA, or VA x .8

(eg; 1KVA = .8KW or 800 Watts)

Converting Watts to VA

Multiply Watts by 1.2

(eg; 800 Watts = approx. 1000VA)

Establishing electrical consumption cost

Find your KW load.(eg; 10KVA = 8KW)Multiply your KW load by \$.07/Hour(eg; \$.07 X 8KW = \$.56/hour)

Useful Formulas

| Electrical Consumption costs Electrical Consumption costs Electrical Consumption costs | \$.08/ KW Hour Nevada |
|--|------------------------------|
| Hours of operation per year | 8760 Hours per vear (24 x 7) |

