



KVA Formulas and Transformers

CABLE & DISTRIBUTION

KVA stands for kilovolt-ampere, which is equivalent to 1,000 volt-amperes. William F. White International supplies transformers as part of its rental inventory. The following formulas can be used for single phase or triple phase power conversion calculations when using a transformer.

Examples:

Single Phase KVA

$$\text{KVA} = \frac{V \times A}{1000}$$

$$A = \frac{\text{KVA} \times 1000}{\text{Volts}}$$

3 Phase KVA

$$\text{KVA} = \frac{V \times A \times 1.73}{1000}$$

$$A = \frac{\text{KVA} \times 1000}{1.73 \times \text{Volts}}$$

Whites has several models of step-down transformers available from the Toronto and Vancouver offices. The smallest, a 600V/45kVA source, converts to 120/208V at 100 Amps. The 600V/75kVA source converts to 120/208 at 200 Amps and the larger model, a 600V/150kVA source, converts to 120/208V at 400 Amps. The transformers are in protection rolling cages with forklift pockets for easy transportation.



Transformer Quick Specs						
	45kVA (Toronto)		75kVA (Vancouver)		150kVA (Toronto)	
Input						
Amp	45		75		150	
Voltage	600		600		600	
Output						
Amp	100		200		400	
Voltage	120/208		120/208		120/208	
Dimensions						
Width	28"	71cm	25"	64cm	26"	66cm
Length	41"	104cm	39"	99cm	53"	135cm
Height	35"	89cm	40"	100cm	50"	126cm
Weight (appr)	450lbs	205kg	600lbs	272kg	1500lbs	690kg

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