

CALCULATIONS

USEFUL TECHNICAL INFORMATION

3 PHASE POWER

TO FIND:

kVA	=	$\frac{\text{kW}}{\text{PF}}$
kVA	=	$\frac{\text{AMPS X 1.732 X VOLTS}}{1000}$
kW	=	kVA X PF
kW	=	$\frac{\text{AMPS X 1.732 X VOLTS X PF}}{1000}$
AMPS	=	$\frac{\text{kVA X 1000}}{1.732 \text{ X VOLTS}}$
PF	=	$\frac{\text{kW}}{\text{kVA}}$

SINGLE PHASE POWER

TO FIND

kVA	=	$\frac{\text{VOLTS X AMPS}}{1000}$
kW	=	$\frac{\text{AMPS X VOLTS X PF}}{1000}$
AMPS	=	$\frac{\text{kVA X 1000}}{\text{VOLTS}}$

IMPORTANT -

3 Phase Generators used for 1 Phase application

Please remember to reduce current output when working on single phase operation by 33% (multiply by 0.67) to determine the maximum current available from the alternator.



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