HOW TO FIND YOUR GENERATORS kW LOAD

SINGLE PHASE
kW = (V × I × PF) ÷ 1,000.

(VOLTS measured line to ground X **AMPS** X **0.8pf) / 1000 = Kw**

EXAMPLE.....120volts X 30amps X 0.8pf = 2800watts
2800watts / 1000 = 2.8 kW

THREE PHASE
kW = (V × I × PF × 1.732) ÷ 1,000.

VOLTS measured line to line X AMPS the average of all three lines X 1.732 X 0 **.8pf** = **Watts**
Watts / 1000 = kW

EXAMPLE.....208volts X 43amps X 1.732 X 0.8pf = 12392watts
12392watts / 1000 = 12.392kW

TO FIND THE PERCENTIGE OF LOAD ON YOUR GENERATOR

kW LOAD / SIZE OF THE GENERATOR = FRACTION
FRACTION X 100 = THE PERCENTAGE OF LOAD ON THE GENERATOR

EXAMPLE…….12.392kW / 50kW GENERATOR = 0.2478
0.2478 X 100 = 24.78%