

lamaPlc calc

vice	versa
Watt (power)	
1 W = 3.41 BTU/h (British Thermal Unit)	1 BTU/h = 0.2930710702 W
1 W = 1 J/s	1 J/s = 1W
1 W = 0.001 kJ/s	1 kJ/s = 1000 W
1 W = 0.06 kJ/min	1 kJ/min = 16.6666666667 W
1 W = 3.6 kJ/h	1 kJ/h = 0.2777777778 W
1 W = 1 Nm/s	1 Nm/s = 1 W
1 W = 1 V*A	1 V*A = 1 W
1 W = 0.2388458966 cal/s	1 cal/s = 4.1868 W
1 W = 14.3307537976 cal/min	1 cal/min = 0.06978 W
1 W = 859.845227859 cal/h	1 cal/h = 0.001163 W
1 W = 0.0013404826 HP (horsepower, electric)	1 HP = 745.6998715823 W
1 kW = 1.36 HP (horsepower, electric)	1 HP \approx 0.746 kW
1 W = 0.000101942 horsepower (boiler)	1 horsepower (boiler) = 9809.5000000002 W
1 W = 0.001 kV*A	1 kVA = 1000 W
1 W = 0.0002843451 ton (refrigeration)	1 ton (refrigeration) = 3516.8528420667
1 W = 0.7375621493 foot pound-force/second	1 foot pound-force/second = 1.3558179483 W
1 W = 44.2537289567 pound-foot/minute	1 pound-foot/minute = 0.0225969658 W
1 W = 2655.223737402 foot pound-force/hour	1 foot pound-force/hour = 0.0003766161 W
1 W = 10000000 (1.0E7) erg/s	1 erg/s = 1.0E-7 W
Joule (energy)	
J = kg*m ² *s ⁻² = N*m = Pa*m ³ = W*s = C*V	
1 J = 0.0002390057 kcal (th)	1 kcal (th) = 4184 J
1 kJ = 0.2390057361 kcal (th)	1 kcal (th) = 4.184 kJ
1 J = 23.730360 ft-pdl (foot-poundal)	1 ft-pdl (foot-poundal) = 0.0421401100938048 J
N - newton (force)	
1 N = 1 J/m	1 J/m = 1 N
1 N = 1 kg * m/s ²	1 kg * m/s ² = 1 N
1 N = 0.1019716213 kgf (Kilogram-force)	1 kgf (Kilogram-force) = 9.80665 N
1 N = 0.2248089431 lbf	1 lbf = 4.4482216153 N
1 N = 100000 dyne	1 dyne = 0.00001 N
Nm - newton-meter (work)	
1 N*m = 1 J	1 J = 1 N*m
1 N*m = 0.7375621493 ft*lbf	1 ft*lbf = 1.3558179483 N*m
1 N*m = 0.0009478171 Btu (IT)	1 Btu (IT) = 1055.05585262 N*m
1 N*m = 0.0002777778 W*h	1 W*h = 3600 N*m
Wh / kWh (energy)	
1 Wh = 0.8598452279 calorie (nutritional)	1 calorie (nutritional) = 1.163 Wh
1 Wh = 3600 Nm	1 Nm = 0.0002777778 Wh
1 kWh \approx 860 Kcal	
1 kWh = 3.6 Mj	1 Mj = 0,2777 kWh
1 kWh = 85429300 ft*pdL	1 ft*pdL = 0,0117055857884824 kWh

1 kWh = 3.6×10^{13} erg	
cal (nutritional) (energy)	
1 cal (nutritional) = 4186.8 J	1 J = 0.0002388459 calorie (nutritional)
1 calorie (nutritional) = 1.163 Wh	1 Wh = 0.8598452279 calorie (nutritional)
cal (thermochemical) (energy)	
A large calorie (kcal) is the amount of energy required to raise 1 kilogram (kg) of water by 1 °C	
1 Kcal = 4184 J = 4.184 kJ	1 kJ = 0.2390057361 kcal (th)
1 kcal (th) = 3.9683217149 Btu (th)	1 Btu (th) = 0.2519956979 kcal (th)
1 kgf = 1 kp (kilopond) = 1000 p (pond)	
kgf - kilogram-force (unit of force the gravitational) or kilopond (kp)	
1 kf = 1 kp (kilopond) = 1000 p (pond)	
1 kgf = 9.80665 N	1 N = 0.1019716213 kgf
1 kgf = 70.931635284 lb*ft/s ² (pound foot/square second)	1 lb*ft/s ² (pound foot/square second) = 0.0140980819 kgf

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