

# Power conversion chart

Watts, horsepower, BTU/h. Factors are given to 7 significant figures; open the converter for full precision and the worked solution.

| Conversion factors to watts (W) |             |                  |
|---------------------------------|-------------|------------------|
| UNIT                            | IN W        | 1 W IN UNIT      |
| watt (W)                        | 1 W         | 1 W              |
| kilowatt (kW)                   | 1,000 W     | 0.001 kW         |
| megawatt (MW)                   | 1,000,000 W | 0.000001 MW      |
| horsepower (mechanical) (hp)    | 745.6999 W  | 0.001341022 hp   |
| metric horsepower (PS) (PS)     | 735.4987 W  | 0.001359622 PS   |
| BTU per hour (BTU/h)            | 0.2930711 W | 3.412142 BTU/h   |
| ton of refrigeration (TR)       | 3,516.853 W | 0.0002843451 TR  |
| kilocalorie per hour (kcal/h)   | 1.162222 W  | 0.8604207 kcal/h |

| hp → kW  |               |
|----------|---------------|
| HP       | KW            |
| 0.1 hp   | 0.07456999 kW |
| 0.5 hp   | 0.3728499 kW  |
| 1 hp     | 0.7456999 kW  |
| 2 hp     | 1.4914 kW     |
| 5 hp     | 3.728499 kW   |
| 10 hp    | 7.456999 kW   |
| 20 hp    | 14.914 kW     |
| 25 hp    | 18.6425 kW    |
| 50 hp    | 37.28499 kW   |
| 100 hp   | 74.56999 kW   |
| 250 hp   | 186.425 kW    |
| 500 hp   | 372.8499 kW   |
| 1,000 hp | 745.6999 kW   |

| kW → hp  |              |
|----------|--------------|
| KW       | HP           |
| 0.1 kW   | 0.1341022 hp |
| 0.5 kW   | 0.670511 hp  |
| 1 kW     | 1.341022 hp  |
| 2 kW     | 2.682044 hp  |
| 5 kW     | 6.70511 hp   |
| 10 kW    | 13.41022 hp  |
| 20 kW    | 26.82044 hp  |
| 25 kW    | 33.52555 hp  |
| 50 kW    | 67.0511 hp   |
| 100 kW   | 134.1022 hp  |
| 250 kW   | 335.2555 hp  |
| 500 kW   | 670.511 hp   |
| 1,000 kW | 1,341.022 hp |

Formula:  $kW = hp \times 0.7456998716$

