Kilowatts to Horsepower Conversion Chart

Kilowatts to mechanical and metric horsepower

For: Mechanics, EV and car buyers, and motor specifiers

allunitconversions.com/kw-to-hp-conversion-chart
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EXACT DEFINITION	FORMULA	REVERSE	WORKED EXAMPLE
1 hp (mechanical) = 745.699 871 6 W; 1 PS (metric) = 735.498 75 W	hp = kW ÷ 0.745 700; PS = kW ÷ 0.735 499	kW = hp × 0.745 700	100 kW = 134.10 hp = 135.96 PS

Horsepower is rounded to 2 decimal places.

Kilowatts to horsepower

Kilowatts (kW)	Horsepower (mech.) (hp)	Metric horsepower (PS)	Kilowatts (kW)	Horsepower (mech.) (hp)	Metric horsepower (PS)	Kilowatts (kW)	Horsepower (mech.) (hp)	Metric horsepower (PS)
0.5	0.67	0.68	**23**	30.84	31.27	**130**	174.33	176.75
0.75	1.01	1.02	**24**	32.18	32.63	**140**	187.74	190.35
1	1.34	1.36	**25**	33.53	33.99	**150**	201.15	203.94
2	2.68	2.72	**26**	34.87	35.35	**160**	214.56	217.54
3	4.02	4.08	**27**	36.21	36.71	**170**	227.97	231.14
4	5.36	5.44	**28**	37.55	38.07	**180**	241.38	244.73
5	6.71	6.80	**29**	38.89	39.43	**190**	254.79	258.33
6	8.05	8.16	**30**	40.23	40.79	**200**	268.20	271.92
7	9.39	9.52	**35**	46.94	47.59	**210**	281.61	285.52
8	10.73	10.88	**40**	53.64	54.38	**220**	295.02	299.12
9	12.07	12.24	**45**	60.35	61.18	**230**	308.44	312.71
10	13.41	13.60	**50**	67.05	67.98	**240**	321.85	326.31
11	14.75	14.96	**55**	73.76	74.78	**250**	335.26	339.91
12	16.09	16.32	**60**	80.46	81.58	**260**	348.67	353.50
13	17.43	17.68	**65**	87.17	88.38	**270**	362.08	367.10
14	18.77	19.03	**70**	93.87	95.17	**280**	375.49	380.69
15	20.12	20.39	**75**	100.58	101.97	**290**	388.90	394.29
16	21.46	21.75	**80**	107.28	108.77	**300**	402.31	407.89
17	22.80	23.11	**85**	113.99	115.57	**350**	469.36	475.87
18	24.14	24.47	**90**	120.69	122.37	**400**	536.41	543.85
19	25.48	25.83	**95**	127.40	129.16	**450**	603.46	611.83
20	26.82	27.19	**100**	134.10	135.96	**500**	670.51	679.81
21	28.16	28.55	**110**	147.51	149.56	**750**	1,005.77	1,019.72
22	29.50	29.91	**120**	160.92	163.15	**1,000**	1,341.02	1,359.62

Sources and method

- **NIST Special Publication 811** — Guide for the Use of the International System of Units (www.nist.gov/pml/special-publication-811)

Conversion values on this sheet are generated by the AllUnitConversions conversion library and automatically checked against the exact definitions above before the PDF is produced; reference tables are taken from the sources listed. Interactive version, corrections and more charts: **allunitconversions.com/kw-to-hp-conversion-chart**