

Pferdestärke – Kilowatt Kilowatt – Pferdestärke Umrechnungstabellen

DIN 66 036

Metric horsepower — kilowatt, kilowatt — metric horsepower; conversion tables

Diese Norm kann benutzt werden für die Umrechnung der Zahlenwerte von Größen, mit der Einheit Pferdestärke in Kilowatt, oder umgekehrt. Sie kann auch verwendet werden für die Umrechnung der Zahlenwerte abgeleiteter Größen, z. B. kg/(kWh) in kg/(PS h).

1. Umrechnung von Pferdestärke (PS) in Kilowatt (kW)

Einheitengleichung: $1 \text{ PS} = 75 \text{ km/s} = 75 \cdot 9,80665 \text{ Nm/s} = 0,73549875 \text{ kW}$ (Zahlenwert nach DIN 1301).

Die Zahlenwerte der Tabelle 1 sind nach DIN 1333 Teil 2 auf sechs Stellen hinter dem Komma gerundet.

Tabelle 1.

PS	0,0	0,1	0,2	0,3	0,4	0,5	0,6	0,7	0,8	0,9
	kW									
0	0,000000	0,073550	0,147100	0,220650	0,294200	0,367749	0,441299	0,514849	0,588399	0,661949
1	0,735499	0,809049	0,882599	0,956148	1,029698	1,103248	1,176798	1,250348	1,323898	1,397448
2	1,470998	1,544547	1,618097	1,691647	1,765197	1,838747	1,912297	1,985847	2,059397	2,132946
3	2,206496	2,280046	2,353596	2,427146	2,500696	2,574246	2,647796	2,721345	2,794895	2,868445
4	2,941995	3,015545	3,089095	3,162645	3,236195	3,309744	3,383294	3,456844	3,530394	3,603944
5	3,677494	3,751044	3,824594	3,898143	3,971693	4,045243	4,118793	4,192343	4,265893	4,339443
6	4,412993	4,486542	4,560092	4,633642	4,707192	4,780742	4,854292	4,927842	5,001392	5,074941
7	5,148491	5,222041	5,295591	5,369141	5,442691	5,516241	5,589791	5,663340	5,736890	5,810440
8	5,883990	5,957540	6,031090	6,104640	6,178190	6,251739	6,325289	6,398839	6,472389	6,545939
9	6,619489	6,693039	6,766589	6,840138	6,913688	6,987238	7,060788	7,134338	7,207888	7,281438
10	7,354988	7,428537	7,502087	7,575637	7,649187	7,722737	7,796287	7,869837	7,943387	8,016936
11	8,090486	8,164036	8,237586	8,311136	8,384686	8,458236	8,531786	8,605335	8,678885	8,752435
12	8,825985	8,899535	8,973085	9,046635	9,120185	9,193734	9,267284	9,340834	9,414384	9,487934
13	9,561484	9,635034	9,708584	9,782133	9,855683	9,929233	10,002783	10,076333	10,149883	10,223433
14	10,296983	10,370532	10,444082	10,517632	10,591182	10,664732	10,738282	10,811832	10,885382	10,958931
15	11,032481	11,106031	11,179581	11,253131	11,326681	11,400231	11,473781	11,547330	11,620880	11,694430
16	11,767980	11,841530	11,915080	11,988630	12,062180	12,135729	12,209279	12,282829	12,356379	12,429929
17	12,503479	12,577029	12,650579	12,724128	12,797678	12,871228	12,944777	13,018327	13,091877	13,165427
18	13,238978	13,312527	13,386077	13,459627	13,533177	13,606727	13,680277	13,753827	13,827377	13,900926
19	13,974476	14,048026	14,121576	14,195126	14,268676	14,342226	14,415776	14,489325	14,562875	14,636425
20	14,709975	14,783525	14,857075	14,930625	15,004175	15,077724	15,151274	15,224824	15,298374	15,371924
21	15,445474	15,519024	15,592574	15,666123	15,739673	15,813223	15,886773	15,960323	16,033873	16,107423
22	16,180973	16,254522	16,328072	16,401622	16,475172	16,548722	16,622272	16,695822	16,769372	16,842921
23	16,916471	16,990021	17,063571	17,137121	17,210671	17,284221	17,357771	17,431320	17,504870	17,578420
24	17,651970	17,725520	17,799070	17,872620	17,946170	18,019719	18,093269	18,166819	18,240369	18,313919
25	18,387469	18,461019	18,534569	18,608118	18,681668	18,755218	18,828768	18,902318	18,975868	19,049418
26	19,122968	19,196517	19,270067	19,343617	19,417167	19,490717	19,564267	19,637817	19,711367	19,784916
27	19,858466	19,932016	20,005566	20,079116	20,152666	20,226216	20,299766	20,373315	20,446865	20,520415
28	20,593965	20,667515	20,741065	20,814615	20,888165	20,961714	21,035264	21,108814	21,182364	21,255914
29	21,329464	21,403014	21,476564	21,550113	21,623663	21,697213	21,770763	21,844313	21,917863	21,991413
30	22,064963	22,138512	22,212062	22,285612	22,359162	22,432712	22,506262	22,579812	22,653362	22,726911
31	22,800461	22,874011	22,947561	23,021111	23,094661	23,168211	23,241761	23,315310	23,388860	23,462410
32	23,535960	23,609510	23,683060	23,756610	23,830160	23,903709	23,977259	24,050809	24,124359	24,197909
33	24,271459	24,345009	24,418559	24,492108	24,565658	24,639208	24,712758	24,786308	24,859858	24,933408
34	25,006958	25,080507	25,154057	25,227607	25,301157	25,374707	25,448257	25,521807	25,595357	25,668906
35	25,742456	25,816006	25,889556	25,963106	26,036656	26,110206	26,183756	26,257305	26,330855	26,404405
36	26,477955	26,551505	26,625055	26,698605	26,772155	26,845704	26,919254	26,992804	27,066354	27,139904
37	27,213454	27,287004	27,360554	27,434103	27,507653	27,581203	27,654753	27,728303	27,801853	27,875403
38	27,948953	28,022502	28,096052	28,169602	28,243152	28,316702	28,390252	28,463802	28,537352	28,610901
39	28,684451	28,758001	28,831551	28,905101	28,978651	29,052201	29,125751	29,199300	29,272850	29,346400
40	29,419950									

Fortsetzung Seite 2 bis 4

Normenausschuß Grundlagen der Normung (NG) im DIN Deutsches Institut für Normung e. V.

Tabelle 1. (Fortsetzung von Seite 1)

PS	0,0	0,1	0,2	0,3	0,4	0,5	0,6	0,7	0,8	0,9
	kW									
40	29,419950	29,493500	29,567050	29,640600	29,714150	29,787699	29,861249	29,934799	30,008349	30,081899
41	30,155449	30,228999	30,302549	30,376098	30,449648	30,523198	30,596748	30,670298	30,743848	30,817398
42	30,890948	30,964497	31,038047	31,111597	31,185147	31,258697	31,332247	31,405797	31,479347	31,552896
43	31,626446	31,699996	31,773546	31,847096	31,920646	31,994196	32,067746	32,141295	32,214845	32,288395
44	32,361945	32,435495	32,509045	32,582595	32,656145	32,729694	32,803244	32,876794	32,950344	33,023894
45	33,097444	33,170994	33,244544	33,318093	33,391643	33,465193	33,538743	33,612293	33,685843	33,759393
46	33,832943	33,906492	33,980042	34,053592	34,127142	34,200692	34,274242	34,347792	34,421342	34,494891
47	34,568441	34,641991	34,715541	34,789091	34,862641	34,936191	35,009741	35,083290	35,156840	35,230390
48	35,303940	35,377490	35,451040	35,524590	35,598140	35,671689	35,745239	35,818789	35,892339	35,965889
49	36,039439	36,112989	36,186539	36,260088	36,333638	36,407188	36,480738	36,554288	36,627838	36,701388
50	36,774938	36,848487	36,922037	36,995587	37,069137	37,142687	37,216237	37,289787	37,363337	37,436886
51	37,510436	37,583986	37,657536	37,731086	37,804636	37,878186	37,951736	38,025285	38,098835	38,172385
52	38,245935	38,319485	38,393035	38,466585	38,540135	38,613684	38,687234	38,760784	38,834334	38,907884
53	38,981434	39,054984	39,128534	39,202083	39,275633	39,349183	39,422733	39,496283	39,569833	39,643383
54	39,716933	39,790482	39,864032	39,937582	40,011132	40,084682	40,158232	40,231782	40,305332	40,378881
55	40,452431	40,525981	40,599531	40,673081	40,746631	40,820181	40,893731	40,967280	41,040830	41,114380
56	41,187930	41,261480	41,335030	41,408580	41,482130	41,555679	41,629229	41,702779	41,776329	41,849879
57	41,923429	41,996979	42,070529	42,144078	42,217628	42,291178	42,364728	42,438278	42,511828	42,585378
58	42,658928	42,732477	42,806027	42,879577	42,953127	43,026677	43,100227	43,173777	43,247327	43,320876
59	43,394426	43,467976	43,541526	43,615076	43,688626	43,762176	43,835726	43,909275	43,982825	44,056375
60	44,129925	44,203475	44,277025	44,350575	44,424125	44,497674	44,571224	44,644774	44,718324	44,791874
61	44,865424	44,938974	45,012524	45,086073	45,159623	45,233173	45,306723	45,380273	45,453823	45,527373
62	45,600923	45,674472	45,748022	45,821572	45,895122	45,968672	46,042222	46,115772	46,189322	46,262871
63	46,336421	46,409971	46,483521	46,557071	46,630621	46,704171	46,777721	46,851270	46,924820	46,998370
64	47,071920	47,145470	47,219020	47,292570	47,366120	47,439669	47,513219	47,586769	47,660319	47,733869
65	47,807419	47,880969	47,954519	48,028068	48,101618	48,175168	48,248718	48,322268	48,395818	48,469368
66	48,542918	48,616467	48,690017	48,763567	48,837117	48,910667	48,984217	49,057767	49,131317	49,204866
67	49,278416	49,351966	49,425516	49,499066	49,572616	49,646166	49,719716	49,793265	49,866815	49,940365
68	50,013915	50,087465	50,161015	50,234565	50,308115	50,381664	50,455214	50,528764	50,602314	50,675864
69	50,749414	50,822964	50,896514	50,970063	51,043613	51,117163	51,190713	51,264263	51,337813	51,411363
70	51,484913	51,558462	51,632012	51,705562	51,779112	51,852662	51,926212	51,999762	52,073312	52,146861
71	52,220411	52,293961	52,367511	52,441061	52,514611	52,588161	52,661711	52,735260	52,808810	52,882360
72	52,955910	53,029460	53,103010	53,176560	53,250110	53,323659	53,397209	53,470759	53,544309	53,617859
73	53,691409	53,764959	53,838509	53,912058	53,985608	54,059158	54,132708	54,206258	54,279808	54,353358
74	54,426908	54,500457	54,574007	54,647557	54,721107	54,794657	54,868207	54,941757	55,015307	55,088856
75	55,162406	55,235956	55,309506	55,383056	55,456606	55,530156	55,603706	55,677255	55,750805	55,824355
76	55,897905	55,971455	56,045005	56,118555	56,192105	56,265654	56,339204	56,412754	56,486304	56,559854
77	56,633404	56,706954	56,780504	56,854053	56,927603	57,001153	57,074703	57,148253	57,221803	57,295353
78	57,368903	57,442452	57,516002	57,589552	57,663102	57,736652	57,810202	57,883752	57,957302	58,030851
79	58,104401	58,177951	58,251501	58,325051	58,398601	58,472151	58,545701	58,619250	58,692800	58,766350
80	58,839900	58,913450	58,987000	59,060550	59,134100	59,207649	59,281199	59,354749	59,428299	59,501849
81	59,575399	59,648949	59,722499	59,796048	59,869598	59,943148	60,016698	60,090248	60,163798	60,237348
82	60,310898	60,384447	60,457997	60,531547	60,605097	60,678647	60,752197	60,825747	60,899297	60,972846
83	61,046396	61,119946	61,193496	61,267046	61,340596	61,414146	61,487696	61,561245	61,634795	61,708345
84	61,781895	61,855445	61,928995	62,002545	62,076095	62,149644	62,223194	62,296744	62,370294	62,443844
85	62,517394	62,590944	62,664494	62,738043	62,811593	62,885143	62,958693	63,032243	63,105793	63,179343
86	63,252893	63,326442	63,399992	63,473542	63,547092	63,620642	63,694192	63,767742	63,841292	63,914841
87	63,988391	64,061941	64,135491	64,209041	64,282591	64,356141	64,429691	64,503240	64,576790	64,650340
88	64,723890	64,797440	64,870990	64,944540	65,018090	65,091639	65,165189	65,238739	65,312289	65,385839
89	65,459389	65,532939	65,606489	65,680038	65,753588	65,827138	65,900688	65,974238	66,047788	66,121338
90	66,194888	66,268437	66,341987	66,415537	66,489087	66,562637	66,636187	66,709737	66,783287	66,856836
91	66,930386	67,003936	67,077486	67,151036	67,224586	67,298136	67,371686	67,445235	67,518785	67,592335
92	67,665885	67,739435	67,812985	67,886535	67,960085	68,033634	68,107184	68,180734	68,254284	68,327834
93	68,401384	68,474934	68,548484	68,622033	68,695583	68,769133	68,842683	68,916233	68,989783	69,063333
94	69,136883	69,210432	69,283982	69,357532	69,431082	69,504632	69,578182	69,651732	69,725282	69,798831
95	69,872381	69,945931	70,019481	70,093031	70,166581	70,240131	70,313681	70,387230	70,460780	70,534330
96	70,607880	70,681430	70,754980	70,828530	70,902080	70,975629	71,049179	71,122729	71,196279	71,269829
97	71,343379	71,416929	71,490479	71,564028	71,637578	71,711128	71,784678	71,858228	71,931778	72,005328
98	72,078878	72,152427	72,225977	72,299527	72,373077	72,446627	72,520177	72,593727	72,667277	72,740826
99	72,814376	72,887926	72,961476	73,035026	73,108576	73,182126	73,255676	73,329225	73,402775	73,476325
100	73,549875									

Anwendungsbeispiele unter Aufrechterhaltung der Genauigkeit der Tabellenwerte

0,5 PS = 0,367749 kW
8,8 PS = 6,472389 kW
48 PS = 35,303940 kW

8455 PS = ? kW
8450 PS = 6214,9644 kW
5 PS = 3,6775 kW
8455 PS = 6218,6419 kW



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