

kVA / kW AMPERAGE CHART

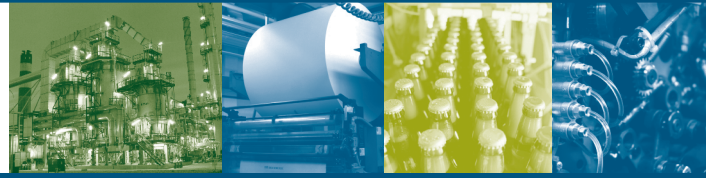
80% Power Factor

kVA	kW	208 V	220 V	240 V	380 V	440 V	480 V	660 V	2400 V	3300 V	4160 V	12000 V	16000 V
18.7	15	52.0	49.2	45.1	28.5	24.6	22.6	18.0					
25	20	69.4	65.6	60.1	38	32.8	30.1	24.1					
31.3	25	86.7	82.0	75.2	47.5	41.0	37.6	30.1					
37.5	30	104	98	90.2	57	49.2	45.1	36.1	9.0	6.6	5.2		
50	40	139	131	120	76	65.6	60.1	48.1	12.0	8.7	7		
62.5	50	173	164	150	95	82.0	75.2	60.1	15.0	10.9	8.7		
75	60	208	197	180	114	98.4	90.2	72.2	18.0	13.1	10.4		
93.8	75	260	246	226	142	123	113	90.2	22.6	16.4	13	4.5	3.4
100	80	278	262	241	152	131	120	96.2	24.1	17.5	13.9	4.8	3.6
125	100	347	328	301	190	164	150	120	30.1	21.9	17.3	6.0	4.5
156	125	434	410	376	237	205	188	150	37.6	27.3	21.7	7.5	5.6
187	150	520	492	451	285	246	226	180	45	33	26	9	7
219	175	607	574	526	332	287	263	210	53	38	30	11	8
250	200	694	656	601	380	328	301	241	60	44	35	12	9
312	250	867	820	752	475	410	376	301	75	55	43	15	11
375	300	1041	984	902	570	492	451	361	90	66	52	18	14
438	350	1214	1148	1052	665	574	526	421	105	77	61	21	16
500	400	1388	1312	1203	760	656	601	481	120	87	69	24	18
625	500	1735	1640	1504	950	820	752	601	150	109	87	30	23
750	600	2082	1968	1804	1140	984	902	722	180	131	104	36	27
875	700	2429	2296	2105	1329	1148	1052	842	210	153	121	42	32
1000	800	2776	2624	2406	1519	1312	1203	962	241	175	139	48	36
1125	900	3123	2952	2706	1709	1476	1353	1083	271	197	156	54	41
1250	1000	3470	3280	3007	1899	1640	1504	1203	301	219	173	60	45
1563	1250	4337	4101	3759	2374	2050	1879	1504	376	273	217	75	56
1875	1500	5205	4921	4511	2849	2460	2255	1804	451	328	260	90	68
2188	1750			5262	3324	2870	2631	2105	526	383	304	105	79
2500	2000			6014	3798	3280	3007	2406	601	437	347	120	90
3750	3000			9021	5698	4921	4511	3609	902	656	520	180	135
4375	4000			12028	7597	6561	6014	4811	1203	875	694	241	180
5000	5000			15036	9496	8201	7518	6014	1504	1093	867	301	226
7500	6000			18043	11395	9841	9021	7217	1804	1312	1041	361	271
8750	7000			21050	13295	11482	10525	8420	2105	1531	1214	421	316
10000	8000			24057	15194	13122	12028	9623	2406	1750	1388	481	361
11250	9000			27064	17093	14762	13532	10826	2706	1968	1561	541	406
12500	10000			30071	18992	16402	15036	12028	3007	2187	1735	601	451

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FORMULAS

Power

*=Alternating Current

TO OBTAIN:	SINGLE PHASE*	THREE PHASE*
kW	$\frac{V \times I \times PF}{1000}$	$\frac{1.732 \times V \times I \times PF}{1000}$
kVA	$\frac{V \times I}{1000}$	$\frac{1.732 \times V \times I}{1000}$
Horsepower required when generator kW is known (if generator efficiency is unknown, use 0.93)	$\frac{kW}{0.746 \times \text{Efficiency (Generator)}}$	$\frac{kW}{0.746 \times \text{Efficiency (Generator)}}$
KW input when motor hp is known (if motor efficiency is unknown, use 0.85 x hp)	$\frac{hp \times 0.746}{\text{Efficiency (Motor)}}$	$\frac{hp \times 0.746}{\text{Efficiency (Motor)}}$
Amperes when motor hp known	$\frac{hp \times 746}{V \times PF \times \text{Efficiency}}$	$\frac{hp \times 746}{1.732 \times V \times PF \times \text{Efficiency}}$
Amperes when kW known	$\frac{kW \times 1000}{V \times PF}$	$\frac{kW \times 1000}{1.732 \times V \times PF}$
Amperes when kVA known	$\frac{kVA \times 1000}{V}$	$\frac{kVA \times 1000}{1.732 \times V}$

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