

GENERATOR AMP RATINGS - THREE PHASE EXTENDED**3 PHASE AMPERES - 80% POWER FACTOR* (Extended Table)****kW Times 1000 divided by (Volts*1.73) *.80**

This chart approximates the amperage of a generator based on the size of the generator and the load on the generator at 100 percent of capacity. Please note that this table is intended to be used as an estimator is not an exact representation due to various factors that can increase or decrease amperage. Elevation, temperature, fuel quality, age, wire size and length and other factors can decrease the amount of power a specific installation can generate.

kVA	kW	120	208	220	240	277	380	400	416	440	450	480	600	2400	3300	4160	11000	13800
5	4	24.1	13.9	13.1	12.0	10.4	7.6	7.2	6.9	6.6	6.4	6.0	-	-	-	-	-	-
6	5	30.1	17.4	16.4	15.1	13.0	9.5	9.0	8.7	8.2	8.0	7.5	-	-	-	-	-	-
9	7	42.1	24.3	23.0	21.1	18.3	13.3	12.6	12.2	11.5	11.2	10.5	-	-	-	-	-	-
11	9	54.2	31.3	29.6	27.1	23.5	17.1	16.3	15.6	14.8	14.5	13.5	-	-	-	-	-	-
13	10	60.2	34.7	32.8	30.1	26.1	19.0	18.1	17.4	16.4	16.1	15.1	-	-	-	-	-	-
15	12	72.3	41.7	39.4	36.1	31.3	22.8	21.7	20.8	19.7	19.3	18.1	-	-	-	-	-	-
19	15	90.3	52.1	49.3	45.2	39.1	28.5	27.1	26.1	24.6	24.1	22.6	-	-	-	-	-	-
20	16	96.3	55.6	52.5	48.2	41.7	30.4	28.9	27.8	26.3	25.7	24.1	-	-	-	-	-	-
25	20	120.4	69.5	65.7	60.2	52.2	38.0	36.1	34.7	32.8	32.1	30.1	-	-	-	-	-	-
31	25	150.5	86.8	82.1	75.3	65.2	47.5	45.2	43.4	41.1	40.1	37.6	-	-	-	-	-	-
38	30	180.6	104.2	98.5	90.3	78.3	57.0	54.2	52.1	49.3	48.2	45.2	-	-	-	-	-	-
44	35	210.7	121.6	115.0	105.4	91.3	66.6	63.2	60.8	57.5	56.2	52.7	-	-	-	-	-	-
50	40	240.8	139.0	131.4	120.4	104.3	76.1	72.3	69.5	65.7	64.2	60.2	48.2	12.0	8.8	6.9	-	-
56	45	271.0	156.3	147.8	135.5	117.4	85.6	81.3	78.2	73.9	72.3	67.7	54.2	13.5	9.9	7.8	-	-
63	50	301.1	173.7	164.2	150.5	130.4	95.1	90.3	86.8	82.1	80.3	75.3	60.2	15.1	10.9	8.7	-	-
69	55	331.2	191.1	180.6	165.6	143.5	104.6	99.3	95.5	90.3	88.3	82.8	66.2	16.6	12.0	9.6	-	-
75	60	361.3	208.4	197.1	180.6	156.5	114.1	108.4	104.2	98.5	96.3	90.3	72.3	18.1	13.1	10.4	-	-
80	65	391.4	225.8	213.5	195.7	169.5	123.6	117.4	112.9	106.7	104.4	97.8	78.3	19.6	14.2	11.3	-	-
88	70	421.5	243.2	229.9	210.7	182.6	133.1	126.4	121.6	115.0	112.4	105.4	84.3	21.1	15.3	12.2	-	-
94	75	451.6	260.5	246.3	225.8	195.6	142.6	135.6	130.3	123.2	120.4	112.9	90.3	22.6	16.4	13.0	-	-
100	80	481.7	277.9	262.7	240.8	208.7	152.1	144.5	139.0	131.4	128.5	120.4	96.3	24.1	17.5	13.9	5.3	4.2
106	85	511.8	295.3	279.2	255.9	221.7	161.6	153.5	147.6	139.6	136.5	128.0	102.4	25.6	18.6	14.8	5.6	4.5
113	90	541.9	312.6	295.6	271.0	234.8	171.1	162.6	156.3	147.8	144.5	135.5	108.4	27.1	19.7	15.6	5.9	4.7
125	100	602.1	347.4	328.4	301.1	260.8	190.1	180.6	173.7	164.2	160.6	150.5	120.4	30.1	21.9	17.4	6.6	5.2
138	110	662.3	382.1	361.3	331.2	286.9	209.2	198.7	191.1	180.6	176.6	165.6	132.5	33.1	24.1	19.1	7.2	5.8
144	115	692.4	399.5	377.7	346.2	300.0	218.7	207.7	199.7	188.8	184.6	173.1	138.5	34.6	25.2	20.0	7.6	6.0
150	120	722.5	416.9	394.1	361.3	313.0	228.2	216.8	208.4	197.1	192.7	180.6	144.5	36.1	26.3	20.8	7.9	6.3
156	125	752.6	434.2	410.5	376.3	326.1	237.7	225.8	217.1	205.3	200.7	188.2	150.5	37.6	27.4	21.7	8.2	6.5
163	130	782.8	451.6	427.0	391.4	339.1	247.2	234.8	225.8	213.5	208.7	195.7	156.6	39.1	28.5	22.6	8.5	6.8
175	140	843.0	486.3	459.8	421.5	365.2	266.2	252.9	243.2	229.9	224.8	210.7	168.6	42.1	30.7	24.3	9.2	7.3
188	150	903.2	521.1	492.6	451.6	391.3	285.2	271.0	260.5	246.3	240.8	225.8	180.6	45.2	32.8	26.1	9.9	7.9
194	155	933.3	538.4	509.1	466.6	404.3	294.7	280.0	269.2	254.5	248.8	233.3	186.7	46.7	33.9	26.9	10.2	8.1
kVA	kW	120	208	220	240	277	380	400	416	440	450	480	600	2400	3300	4160	11000	13800
206	165	993.5	573.2	541.9	496.7	430.4	313.7	298.0	286.6	271.0	264.9	248.4	198.7	49.7	36.1	28.7	10.8	8.6
213	170	1023.6	590.5	558.3	511.8	443.4	323.2	307.1	295.3	279.2	273	255.9	204.7	51.2	37.2	29.5	11.2	8.9
219	175	1053.7	607.9	574.8	526.9	456.5	332.8	316.1	304.0	287.4	281	263.4	210.7	52.7	38.3	30.4	11.5	9.2
225	180	1083.8	625.3	591.2	541.9	469.5	342.3	325.1	312.6	295.6	289	271.0	216.8	54.2	39.4	31.3	11.8	9.4
238	190	1144.0	660.0	624.0	572.0	495.6	361.3	343.2	330.0	312.0	305.1	286.0	228.8	57.2	41.6	33.0	12.5	9.9
250	200	1204.2	694.8	656.9	602.1	521.7	380.3	361.3	347.4	328.4	321.1	301.1	240.8	60.2	43.8	34.7	13.1	10.5
275	220	1324.7	764.2	722.5	662.3	573.9	418.3	397.4	382.1	361.3	353.2	331.2	264.9	66.2	48.2	38.2	14.5	11.5
288	230	1384.9	799.0	755.4	692.4	599.9	437.3	415.5	399.5	377.7	369.3	346.2	277.0	69.2	50.4	39.9	15.1	12.0
300	240	1445.1	833.7	788.2	722.5	626.0	456.3	433.5	416.9	394.1	385.4	361.3	289.0	72.3	52.5	41.7	15.8	12.6
313	250	1505.3	868.4	821.1	752.6	652.1	475.4	451.6	434.2	410.5	401.4	376.3	301.1	75.3	54.7	43.4	16.4	13.1
325	260	1565.5	903.2	853.9	782.8	678.2	494.4	469.7	451.6	427.0	417.5	391.4	331.2	78.3	56.9	45.2	17.1	13.6
344	275	1655.8	955.3	903.2	827.9	717.3	522.9	496.7	477.6	451.6	441.6	414.0	313.1	82.8	60.2	47.8	18.1	14.4
363	290	1746.1	1007.4	952.4	873.1	756.5	551.4	523.8	503.7	476.2	465.6	436.5	349.2	87.3	63.5	50.4	19.0	15.2
375	300	1806.4	1042.1	985.3	903.2	782.5	570.4	541.9	521.1	492.6	481.7	451.6	361.3	90.3	65.7	52.1	19.7	15.7
438	350	2107.4	1215.8	1149.5	1053.7	913.0	665.5	632.2	607.9	574.8	562.0	526.9	421.5	105.4	76.6	60.8	23.0	18.3
500	400	2408.5	1389.5	1313.7	1204.2	1043.4	760.6	722.5	694.8	656.9	642.3	602.1	481.7	120.4	87.6	69.5	26.3	20.9
563	450	2709.5	1563.2	1477.9	1354.8	1173.8	855.6	812.9	781.6	739.0	722.5	677.4	541.9	135.5	98.5	78.2	29.6	23.6
625	500	3010.6	1736.9	1642.1	1505.3	1304.2	950.7	903.2	868.4	821.1	802.8	752.6	602.1	150.5	109.5	86.8	32.8	26.2
688	550	3311.7	1910.6	1806.4	1655.8	1434.7	1045.8	993.5	955.3	903.2	883.1	827.9	662.3	165.6	120.4	95.5	36.1	28.8
750	600	3612.7	2084.3	1970.6	1806.4	1565.1	1140.9	1083.8	1042.1	985.3	963.4	903.2	722.5	180.6	131.4	104.2	39.4	31.4
813	650	3913.8	2257.9	2134.8	1956.9	1695.5	1235.9	1174.1	1129.0	1067.4	1043.7	978.4	782.8	195.7	142.3	112.9	42.7	34.0
875	700	4214.8	2431.6	2299.0	2107.4	1825.9	1331.0	1264.5	1215.8	1149.5	1124.0	1053.7	843.0	210.7	153.3	121.6	46.0	36.7

938	750	4515.9	2605.3	2463.2	2257.9	1956.3	1426.1	1354.8	1302.7	1231.6	1204.2	1129.0	903.2	225.8	164.2	130.3	49.3	39.3
1000	800	4817.0	2779.0	2627.4	2408.5	2086.8	1521.9	1445.1	1389.5	1313.7	1284.5	1204.2	963.4	240.8	175.2	139.0	52.5	41.9
1125	900	5419.1	3126.4	2955.9	2709.5	2347.6	1711.3	1625.7	1563.2	1477.9	1445.1	1354.8	1083.8	271.0	197.1	156.3	59.1	47.1
1250	1000	6021.2	3473.8	3284.3	3010.6	2608.5	1901.4	1806.4	1736.9	1642.1	1605.7	1505.3	1204.2	301.1	219.0	173.7	65.7	52.4
1563	1250	7526.5	4342.2	4105.4	3763.2	3260.6	2376.8	2257.9	2171.1	2052.7	2007.1	1881.6	1505.3	376.3	273.7	217.1	82.1	65.4
1875	1500	9031.8	5210.6	4926.4	4515.9	3912.7	2852.1	2709.5	2605.3	2463.2	2408.5	2257.9	1806.4	451.6	328.4	260.5	98.5	78.5
2188	1750	-	-	5747.5	5268.5	4564.8	3327.5	3161.1	3039.5	2873.8	2809.9	2634.3	2107.4	526.9	383.2	304.0	115.0	91.6
2500	2000	-	-	6568.6	6021.2	5216.9	3802.9	3612.7	3473.8	3284.3	3211.3	3010.6	2408.5	602.1	437.9	347.4	131.4	104.7
2812	2250	-	-	7389.6	6773.8	5869.0	4278.2	4064.3	3908.0	3694.8	3612.7	3386.9	2709.5	677.4	492.6	390.8	147.8	117.8
3130	2500	-	-	8210.7	7526.5	6521.1	4753.6	4515.9	4342.2	4105.4	4014.1	3763.2	3010.6	752.6	547.4	434.2	164.2	130.9
3750	3000	-	-	9852.9	9031.8	7825.4	5704.3	5419.1	5210.6	4926.4	4817.0	4515.9	3612.7	903.2	656.9	521.1	197.1	157.1
4375	3500	-	-	11495.0	10537.1	9129.6	6655.0	6322.3	6079.1	5747.5	5619.8	5268.5	4214.8	1053.7	766.3	607.9	229.9	183.3
5000	4000	-	-	13137.2	12042.4	10433.8	7605.7	7225.4	6947.5	6568.6	6422.6	6021.2	4817.0	1204.2	875.8	694.8	262.7	209.4
kVA	kW	120	208	220	240	277	380	400	416	440	450	480	600	2400	3300	4160	11000	13800

3 PHASE AMPERES - 80% POWER FACTOR* (Extended Table)

kW Times 1000 divided by (Volts*1.73) *.80

*All values shown are approximate.

GENERATOR AMP RATINGS - SINGLE PHASE EXTENDED

PHASE AMPERES - 100% POWER FACTOR* (Extended Table)

(kW Times 1000) divided by Volts

kVA	kW	120	240
1	1	8.3	4.2
3	2	16.7	8.3
4	3	25.0	12.5
5	4	33.3	16.7
6	5	41.7	20.8
8	6	50.0	25.0
9	7	58.3	29.2
10	8	66.7	33.3
11	9	75.0	37.5
13	10	83.3	41.7
14	11	91.7	45.8
15	12	100.0	50.0
16	13	108.3	54.2
18	14	116.7	58.3
19	15	125.0	62.5
20	16	133.3	66.7
21	17	141.7	70.8
23	18	150.0	75.0
24	19	158.3	79.2
25	20	166.7	83.3
26	21	175.0	87.5
28	22	183.3	91.7
29	23	191.7	95.8
30	24	200.0	100.0
31	25	208.3	104.2
33	26	216.7	108.3
34	27	225.0	112.5
35	28	233.3	116.7
36	29	241.7	120.8
38	30	250.0	125.0
39	31	258.3	129.2
40	32	266.7	133.3
41	33	275.0	137.5
43	34	283.3	141.7
44	35	291.7	145.8
45	36	300.0	150.0

46	37	308.3	154.2
48	38	316.7	158.3
49	39	325.0	162.5
50	40	333.3	166.7
51	41	341.7	170.8
53	42	350.0	175.0
54	43	358.3	179.2
55	44	366.7	183.3
56	45	375.0	187.5
58	46	383.3	191.7
59	47	391.7	195.8
60	48	400.0	200.0
61	49	408.3	204.2
63	50	416.7	208.3
64	51	425.0	212.5
65	52	433.3	216.7
66	53	441.7	220.8
68	54	450.0	225.0
69	55	458.3	229.2
70	56	466.7	233.3
71	57	475.0	237.5
73	58	483.3	241.7
74	59	491.7	245.8
75	60	500.0	250.0
76	61	508.3	254.2
78	62	516.7	258.3
79	63	525.0	262.5
80	64	533.3	266.7
81	65	541.7	270.8
83	66	550.0	275.0
84	67	558.3	279.2
85	68	566.7	283.3
86	69	575.0	287.5
88	70	583.3	291.7
89	71	591.7	295.8
90	72	600.0	300.0
91	73	608.3	304.2
93	74	616.7	308.3
94	75	625.0	312.5
95	76	633.3	316.7
96	77	641.7	320.8
98	78	650.0	325.0
99	79	658.3	329.2
kVA	kW	120	240
100	80	666.7	333.3
101	81	675.0	337.5
103	82	683.3	341.7
104	83	691.7	345.8
105	84	700.0	350.0
106	85	708.3	354.2
108	86	716.7	358.3
109	87	725.0	362.5
110	88	733.3	366.7
111	89	741.7	370.8
113	90	750.0	375.0
114	91	758.3	379.2
115	92	766.7	383.3
116	93	775.0	387.5
118	94	783.3	391.7
119	95	791.7	395.8
120	96	800.0	400.0
121	97	808.3	404.2
123	98	816.7	408.3
124	99	825.0	412.5
125	100	833.3	416.7

126	101	841.7	420.8
128	102	850.0	425.0
129	103	858.3	429.2
130	104	866.7	433.3
131	105	875.0	437.5
133	106	883.3	441.7
134	107	891.7	445.8
135	108	900.0	450.0
136	109	908.3	454.2
138	110	916.7	458.3
139	111	925.0	462.5
140	112	933.3	466.7
141	113	941.7	470.8
143	114	950.0	475.0
144	115	958.3	479.2
145	116	966.7	483.3
146	117	975.0	487.5
148	118	983.3	491.7
149	119	991.7	495.8
150	120	1000.0	500.0
151	121	1008.3	504.2
153	122	1016.7	508.3
154	123	1025.0	512.5
155	124	1033.3	516.7
156	125	1041.7	520.8
158	126	1050.0	525.0
159	127	1058.3	529.2
160	128	1066.7	533.3
161	129	1075.0	537.5
163	130	1083.3	541.7
164	131	1091.7	545.8
165	132	1100.0	550.0
166	133	1108.3	554.2
168	134	1116.7	558.3
169	135	1125.0	562.5
170	136	1133.3	566.7
171	137	1141.7	570.8
173	138	1150.0	575.0
174	139	1158.3	579.2
175	140	1166.7	583.3
176	141	1175.0	587.5
178	142	1183.3	591.7
179	143	1191.7	595.8
180	144	1200.0	600.0
181	145	1208.3	604.2
183	146	1216.7	608.3
184	147	1225.0	612.5
185	148	1233.3	616.7
186	149	1241.7	620.8
188	150	1250.0	625.0
189	151	1258.3	629.2
190	152	1266.7	633.3
191	153	1275.0	637.5
193	154	1283.3	641.7
194	155	1291.7	645.8
195	156	1300.0	650.0
196	157	1308.3	654.2
198	158	1316.7	658.3
199	159	1325.0	662.5
kVA	kW	120	240
200	160	1333.3	666.7
201	161	1341.7	670.8
203	162	1350.0	675.0
204	163	1358.3	679.2
205	164	1366.7	683.3

206	165	1375.0	687.5
208	166	1383.3	691.7
209	167	1391.7	695.8
210	168	1400.0	700.0
211	169	1408.3	704.2
213	170	1416.7	708.3
214	171	1425.0	712.5
215	172	1433.3	716.7
216	173	1441.7	720.8
218	174	1450.0	725.0
219	175	1458.3	729.2
220	176	1466.7	733.3
221	177	1475.0	737.5
223	178	1483.3	741.7
224	179	1491.7	745.8
225	180	1500.0	750.0
226	181	1508.3	754.2
228	182	1516.7	758.3
229	183	1525.0	762.5
230	184	1533.3	766.7
231	185	1541.7	770.8
233	186	1550.0	775.0
234	187	1558.3	779.2
235	188	1566.7	783.3
236	189	1575.0	787.5
238	190	1583.3	791.7
239	191	1591.7	795.8
240	192	1600.0	800.0
241	193	1608.3	804.2
243	194	1616.7	808.3
244	195	1625.0	812.5
245	196	1633.3	816.7
246	197	1641.7	820.8
248	198	1650.0	825.0
249	199	1658.3	829.2
250	200	1666.7	833.3
251	201	1675.0	837.5
253	202	1683.3	841.7
254	203	1691.7	845.8
255	204	1700.0	850.0
256	205	1708.3	854.2
258	206	1716.7	858.3
259	207	1725.0	862.5
260	208	1733.3	866.7
261	209	1741.7	870.8
263	210	1750.0	875.0
264	211	1758.3	879.2
265	212	1766.7	883.3
266	213	1775.0	887.5
268	214	1783.3	891.7
269	215	1791.7	895.8
270	216	1800.0	900.0
271	217	1808.3	904.2
273	218	1816.7	908.3
274	219	1825.0	912.5
275	220	1833.3	916.7
276	221	1841.7	920.8
278	222	1850.0	925.0
279	223	1858.3	929.2
280	224	1866.7	933.3
281	225	1875.0	937.5
283	226	1883.3	941.7
284	227	1891.7	945.8
285	228	1900.0	950.0
286	229	1908.3	954.2

288	230	1916.7	958.3
289	231	1925.0	962.5
290	232	1933.3	966.7
291	233	1941.7	970.8
293	234	1950.0	975.0
294	235	1958.3	979.2
295	236	1966.7	983.3
296	237	1975.0	987.5
298	238	1983.3	991.7
299	239	1991.7	995.8
kVA	kW	120	240
300	240	2000.0	1000.0
301	241	2008.3	1004.2
303	242	2016.7	1008.3
304	243	2025.0	1012.5
305	244	2033.3	1016.7
306	245	2041.7	1020.8
308	246	2050.0	1025.0
309	247	2058.3	1029.2
310	248	2066.7	1033.3
311	249	2075.0	1037.5
313	250	2083.3	1041.7
314	251	2091.7	1045.8
315	252	2100.0	1050.0
316	253	2108.3	1054.2
318	254	2116.7	1058.3
319	255	2125.0	1062.5
320	256	2133.3	1066.7
321	257	2141.7	1070.8
323	258	2150.0	1075.0
324	259	2158.3	1079.2
325	260	2166.7	1083.3
326	261	2175.0	1087.5
328	262	2183.3	1091.7
329	263	2191.7	1095.8
330	264	2200.0	1100.0
331	265	2208.3	1104.2
333	266	2216.7	1108.3
334	267	2225.0	1112.5
335	268	2233.3	1116.7
336	269	2241.7	1120.8
338	270	2250.0	1125.0
339	271	2258.3	1129.2
340	272	2266.7	1133.3
341	273	2275.0	1137.5
343	274	2283.3	1141.7
344	275	2291.7	1145.8
345	276	2300.0	1150.0
346	277	2308.3	1154.2
348	278	2316.7	1158.3
349	279	2325.0	1162.5
350	280	2333.3	1166.7
kVA	kW	120	240

1 PHASE AMPERES - 100% POWER FACTOR* (Extended Table)

(kW Times 1000) divided by Volts

To convert kW into watts multiply kW (x) 1000

POWER (WATTS) = VOLTS times AMPERES

AMPERES = POWER (WATTS) divided by VOLTS

VOLTS = POWER (WATTS) divided by AMPS

*All values shown are approximate.