

# AMP CHART



kVA	kW	120V	208V	220V	240V	380V	400V	440V	450V	480V	600V
8	6.3		17.5	16.5	15.2	9.6	9.1	8.3	8.1	7.6	6.1
9.4	7.5		26.1	24.7	22.6	14.3	13.6	12.3	12	11.3	9.1
12.5	10		34.7	33	30.1	19.2	18.2	16.6	16.2	15.1	12
18.7	15	90	52	49.5	45	28.8	27.3	24.9	24.4	22.5	18
25	20	120	69.5	66	60.2	38.4	36.4	33.2	30.1	24	6
31.3	25	151	87	82.5	75.5	48	45.5	41.5	40.5	37.8	30
37.5	30	170	104	99	90.3	57.6	54.6	49.8	48.7	45.2	36
50	40	240	139	132	120	77	73	66.5	65	60	48
62.5	50	301	173	165	152	96	91	83	81	76	61
75	60	361	208	198	181	115	109	99.6	97.5	91	72
93.9	75	452	261	247	226	143	136	123	120	113	90
100	80	482	278	264	240	154	146	133	130	120	96
125	100	602	347	330	301	192	182	166	162	150	120
156	125	751	433	413	375	240	228	208	204	188	150
187	150	901	520	495	450	288	273	249	244	225	180
219	175	1055	608	577	527	335	318	289	283	264	211
250	200	1204	694	660	601	384	364	332	324	301	241
312	250	1503	866	825	751	480	455	415	405	376	300
375	300	1806	1040	990	903	576	546	498	487	451	361
438	350	2110	1220	1155	1053	672	637	581	568	527	422
500	400	2408	1390	1320	1203	770	730	665	650	602	481
625	500	3010	1735	1650	1504	960	910	830	810	752	602
750	600	3612	2080	1980	1803	1150	1090	996	975	902	721
875	700	4215	2430	2310	2104	1344	1274	1162	1136	1052	842
1000	800	4817	2780	2640	2405	1540	1460	1330	1300	1203	962
1125	900	5419	3120	2970	2709	1730	1640	1495	1460	1354	1082
1250	1000	6021	3470	3300	3009	1920	1820	1660	1620	1504	1202
1563	1250	7527	4350	4130	3765	2400	2280	2080	2040	1885	1503
1875	1500	9031	5205	4950	4520	2880	2730	2490	2440	2260	1805
2188	1750	10639			5280	3350	3180	2890	2830	2640	2106
2500	2000	12042			6020	3840	3640	3320	3240	3015	2405

## ELECTRIC FORMULAS FOR COMPUTING ALTERNATOR AMPERAGE

DESIRED DATA	SINGLE-PHASE	THREE-PHASE	DIRECT CURRENT
kVA	$\frac{\text{volts} \times \text{amps}}{1,000}$	$\frac{\text{volts} \times \text{amps} \times 1.732}{1,000}$	
kW	kVA x PF	kVA x PF	$\frac{\text{volts} \times \text{amps}}{1,000}$
amps (when kW is known)	$\frac{\text{kW} \times 1,000}{\text{volts} \times \text{PF}}$	$\frac{\text{kW} \times 1,000}{1.732 \times \text{volts} \times \text{PF}}$	$\frac{\text{kW} \times 1,000}{\text{volts}}$
amps (when kVA is known)	$\frac{\text{kVA} \times 1,000}{\text{volts}}$	$\frac{\text{kVA} \times 1,000}{1.732 \times \text{volts}}$	
amps (when hp is known)	$\frac{\text{HP} \times 746}{\text{volts} \times \% \text{EFF.} \times \text{PF}}$	$\frac{\text{HP} \times 746}{1.732 \times \text{volts} \times \% \text{Eff} \times \text{PF}}$	$\frac{\text{HP} \times 746}{\text{volts} \times \% \text{Eff.}}$
electric HP	$\frac{\text{volts} \times \text{amps} \times \% \text{Eff.} \times \text{PF}}{746}$	$\frac{\text{volts} \times \text{amps} \times 1.732 \times \% \text{Eff} \times \text{PF}}{746}$	$\frac{\text{volts} \times \text{amps} \times \% \text{Eff.}}{746}$