



Power Factor & Power Quality Specialists

KW Multiplier Chart

Desired Power Factor

Original Power Factor	Desired Power Factor																				
	.80	.81	.82	.83	.84	.85	.86	.87	.88	.89	.90	.91	.92	.93	.94	.95	.96	.97	.98	.99	1.0
.51	.937	.962	.989	1.015	1.041	1.067	1.094	1.120	1.147	1.175	1.203	1.231	1.261	1.292	1.324	1.358	1.395	1.436	1.484	1.544	1.687
.52	.893	.919	.945	.971	.997	1.023	1.050	1.076	1.103	1.131	1.159	1.187	1.217	1.248	1.280	1.314	1.351	1.392	1.440	1.500	1.643
.53	.850	.876	.902	.928	.954	.980	1.007	1.033	1.060	1.088	1.116	1.144	1.174	1.205	1.237	1.271	1.308	1.349	1.397	1.457	1.600
.54	.809	.835	.861	.887	.913	.939	.966	.992	1.019	1.047	1.075	1.103	1.133	1.164	1.196	1.230	1.267	1.308	1.356	1.416	1.559
.55	.769	.795	.821	.847	.873	.899	.926	.952	.979	1.007	1.035	1.063	1.090	1.124	1.156	1.190	1.228	1.268	1.316	1.377	1.519
.56	.730	.756	.782	.808	.834	.860	.887	.913	.940	.968	.996	1.024	1.054	1.085	1.117	1.151	1.189	1.229	1.277	1.338	1.480
.57	.692	.718	.744	.770	.796	.822	.849	.875	.902	.930	.958	.986	1.016	1.047	1.079	1.113	1.151	1.191	1.239	1.300	1.442
.58	.655	.681	.707	.733	.759	.785	.812	.838	.865	.893	.921	.949	.979	1.010	1.042	1.076	1.114	1.154	1.202	1.263	1.405
.59	.618	.644	.670	.696	.722	.748	.775	.801	.828	.856	.884	.912	.943	.973	1.005	1.039	1.077	1.117	1.165	1.226	1.368
.60	.584	.610	.636	.662	.688	.714	.741	.767	.794	.822	.850	.878	.907	.939	.971	1.005	1.041	1.083	1.131	1.190	1.334
.61	.549	.575	.601	.627	.653	.679	.706	.732	.759	.787	.815	.843	.873	.904	.936	.970	1.008	1.048	1.096	1.157	1.299
.62	.515	.541	.567	.593	.619	.645	.672	.698	.725	.753	.781	.809	.840	.870	.902	.936	.974	1.014	1.062	1.123	1.265
.63	.483	.509	.535	.561	.587	.613	.640	.666	.693	.721	.749	.777	.807	.838	.870	.904	.942	.982	1.030	1.091	1.233
.64	.450	.474	.502	.528	.554	.580	.607	.633	.660	.688	.716	.744	.775	.805	.837	.871	.909	.949	.997	1.068	1.200
.65	.419	.445	.471	.497	.523	.549	.576	.602	.629	.657	.685	.713	.743	.774	.806	.840	.878	.918	.966	1.027	1.169
.66	.388	.414	.440	.466	.492	.518	.545	.571	.598	.626	.654	.682	.712	.743	.775	.809	.847	.887	.935	.996	1.138
.67	.358	.384	.410	.436	.462	.488	.515	.541	.568	.596	.624	.652	.682	.713	.745	.779	.817	.857	.905	.966	1.108
.68	.329	.355	.381	.407	.433	.459	.486	.512	.539	.567	.595	.623	.652	.684	.716	.750	.788	.828	.876	.935	1.079
.69	.299	.325	.351	.377	.403	.429	.456	.482	.509	.537	.565	.593	.623	.654	.686	.720	.758	.798	.846	.907	1.049
.70	.270	.296	.322	.348	.374	.400	.427	.453	.480	.508	.536	.564	.594	.625	.657	.691	.729	.769	.817	.878	1.020
.71	.242	.268	.294	.320	.346	.372	.399	.425	.452	.480	.508	.536	.566	.597	.629	.663	.701	.741	.789	.850	.992
.72	.213	.239	.265	.291	.317	.343	.370	.396	.423	.451	.479	.507	.538	.568	.600	.634	.672	.712	.761	.821	.963
.73	.186	.212	.238	.264	.290	.316	.343	.369	.396	.424	.452	.480	.510	.541	.573	.607	.645	.685	.733	.794	.936
.74	.159	.185	.211	.237	.263	.289	.316	.342	.369	.397	.425	.453	.483	.514	.546	.580	.618	.658	.706	.767	.909
.75	.132	.158	.184	.210	.236	.262	.289	.315	.342	.370	.398	.426	.456	.487	.519	.553	.591	.631	.679	.740	.882
.76	.105	.131	.157	.183	.209	.235	.262	.288	.315	.343	.371	.399	.429	.460	.492	.526	.564	.604	.652	.713	.855
.77	.079	.105	.131	.157	.183	.209	.236	.262	.289	.317	.345	.373	.403	.434	.466	.500	.538	.578	.620	.687	.829
.78	.053	.079	.105	.131	.157	.183	.210	.236	.263	.291	.319	.347	.376	.408	.440	.474	.510	.552	.594	.661	.803
.79	.026	.052	.078	.104	.130	.156	.183	.209	.236	.264	.292	.320	.350	.381	.413	.447	.485	.525	.567	.634	.776
.80	.000	.026	.052	.078	.104	.130	.157	.183	.210	.238	.266	.294	.324	.355	.387	.421	.459	.499	.541	.608	.750
.81	-	.000	.026	.052	.078	.104	.131	.157	.184	.212	.240	.268	.298	.329	.361	.395	.433	.473	.521	.582	.724
.82	-	-	.000	.026	.052	.078	.105	.131	.158	.186	.214	.242	.272	.303	.335	.369	.407	.447	.495	.556	.698
.83	-	-	-	.000	.026	.052	.079	.105	.132	.160	.188	.216	.246	.277	.309	.343	.381	.421	.469	.530	.672
.84	-	-	-	-	.000	.026	.053	.079	.106	.134	.162	.190	.220	.251	.283	.317	.355	.395	.443	.504	.645
.85	-	-	-	-	-	.026	.053	.080	.108	.136	.164	.194	.225	.257	.291	.329	.369	.417	.478	.539	.680
.86	-	-	-	-	-	-	.026	.053	.081	.109	.137	.167	.198	.230	.265	.301	.343	.390	.451	.512	.653
.87	-	-	-	-	-	-	-	.026	.055	.082	.111	.141	.172	.204	.238	.275	.317	.364	.425	.486	.627
.88	-	-	-	-	-	-	-	-	.026	.056	.084	.114	.145	.177	.211	.248	.290	.337	.398	.459	.600
.89	-	-	-	-	-	-	-	-	-	.028	.056	.086	.117	.149	.183	.220	.262	.309	.370	.431	.572
.90	-	-	-	-	-	-	-	-	-	-	.028	.058	.089	.121	.155	.192	.234	.281	.342	.403	.544
.91	-	-	-	-	-	-	-	-	-	-	-	.030	.061	.093	.127	.164	.206	.253	.314	.375	.516
.92	-	-	-	-	-	-	-	-	-	-	-	-	.031	.063	.097	.134	.176	.223	.284	.345	.486
.93	-	-	-	-	-	-	-	-	-	-	-	-	-	.032	.066	.103	.145	.192	.253	.314	.455
.94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.034	.071	.113	.160	.221	.282	.423
.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.037	.079	.126	.187	.248	.389

How To Determine kVAR Required Using Table Above

1. Determine KW and Original Power Factor.
2. Locate Original Power Factor on Table, move across table to Desired Power Factor. The number represented is your multiplier number.
3. Multiply KW by the multiplier of the Desired Power Factor.
4. The result is the amount of kVAR required to bring system to the Desired Power Factor.