

BUCK-BOOST TRANSFORMER SELECTION CHART USING STD DO/DC 120/240-12/24V TRANSFORMERS

- 1) SELECT VOLTAGE COMBINATION MOST APPROPRIATE FOR THE APPLICATION (LV-HV) FROM COLUMN BELOW .
- 2) SELECT KVA OR AMPERE LOADING FOR THE DESIRED LV-HV APPLICATION.
DO = OPEN VERSION, DC = ENCLOSED NEMA1 VERSION
- 3) USING THE CHOSEN KVA OR AMPERE LOADING, SELECT THE CATALOG NUMBER FOR THE TRANSFORMER.
- 4) SPECIFICATIONS FOR THE TRANSFORMER ARE FOUND USING THE CATALOG NUMBER DRAWING REFERENCE
- 5) THE APPROPRIATE CONNECTION DIAGRAM OF THE TRANSFORMER IS LOCATED IN THE CONNECTION DIAGRAM ROW FOR THE SELECTED VOLTAGE COMBINATION.

CATALOG NUMBER	LOW VOLTAGE HIGH VOLTAGE	96 115	100 110	100 120	105 115	110 121	110 132	115 126	115 138	120 132	120 144	200 220	208 229	220 231	220 242	240 252	240 264
DO 0050HC	HV Amps	2.08	4.17	2.08	4.17	4.17	2.08	4.17	2.08	4.17	2.08	2.08	2.08	4.17	2.08	4.17	2.08
DC 0050HC	KVA	.240	.458	.250	0.480	.504	.275	.526	.288	.550	.300	.458	.477	.963	.504	1.05	.550
	LV Amps	2.50	4.58	2.50	4.58	4.58	2.50	4.58	2.50	4.58	2.50	2.29	2.29	4.38	2.29	4.38	2.29
DO 0100HC	HV Amps	4.17	8.33	4.17	8.33	8.33	4.17	8.33	4.17	8.33	4.17	4.17	4.17	8.33	4.17	8.33	4.17
DC 0100HC	KVA	.480	.917	.500	.961	1.01	.550	1.05	.575	1.10	.600	.917	.953	1.92	1.01	2.10	1.10
	LV Amps	5.00	9.17	5.00	9.17	9.17	5.00	9.17	5.00	9.17	5.00	4.58	4.58	8.75	4.58	8.75	4.58
DO 0150HC	HV Amps	6.25	12.5	6.25	12.5	12.5	6.25	12.5	6.25	12.5	6.25	6.25	6.25	12.5	6.25	12.5	6.25
DC 0150HC	KVA	.720	1.38	.750	1.44	1.51	.825	1.58	.863	1.65	.900	1.38	1.43	2.88	1.51	3.15	1.65
	LV Amps	7.50	13.8	7.50	13.8	13.8	7.50	13.8	7.50	13.8	7.50	6.88	6.88	13.1	6.88	13.1	6.88
DO 0200HC	HV Amps	8.33	16.7	8.33	16.7	16.7	8.33	16.7	8.33	16.7	8.33	8.33	8.33	16.7	8.33	16.7	8.33
DC 0200HC	KVA	.960	1.83	1.00	1.92	2.02	1.10	2.11	1.15	2.20	1.20	1.83	1.91	3.85	2.02	4.20	2.20
	LV Amps	10.0	18.3	10.0	18.3	18.3	10.0	18.3	10.0	18.3	10.0	9.17	9.17	17.5	9.17	17.5	9.17
DO 0250HC	HV Amps	10.4	20.8	10.4	20.8	20.8	10.4	20.8	10.4	20.8	10.4	10.4	10.4	20.8	10.4	20.8	10.4
DC 0250HC	KVA	1.20	2.29	1.25	2.40	2.52	1.37	2.63	1.44	2.75	1.50	2.29	2.38	4.81	2.52	5.25	2.75
	LV Amps	12.5	22.9	12.5	22.9	22.9	12.5	22.9	12.5	22.9	12.5	11.4	11.4	21.8	11.4	21.8	11.4
DO 0350HC	HV Amps	14.6	29.2	14.6	29.2	29.2	14.6	29.2	14.6	29.2	14.6	14.6	14.6	29.2	14.6	29.2	14.6
DC 0350HC	KVA	1.68	3.21	1.75	3.36	3.53	1.92	3.68	2.01	3.85	2.10	3.21	3.34	6.74	3.53	7.35	3.85
	LV Amps	17.5	32.1	17.5	32.1	32.1	17.5	32.1	17.5	32.1	17.5	16.0	16.0	30.6	16.0	30.6	16.0
DO 0500HC	HV Amps	20.8	41.6	20.8	41.7	41.7	20.8	41.7	20.8	41.7	20.8	20.8	20.8	41.7	20.8	41.7	20.8
DC 0500HC	KVA	2.39	4.58	2.50	4.80	5.04	2.75	5.26	2.87	5.50	3.00	4.58	4.77	9.62	5.04	10.5	5.50
	LV Amps	24.9	45.8	25.0	45.8	45.8	25.0	45.8	25.0	45.8	25.0	22.9	22.9	43.7	22.9	43.7	22.9
DO 0750HC	HV Amps	31.2	62.5	31.2	62.5	62.5	31.2	62.5	31.2	62.5	31.2	31.2	31.2	62.5	31.2	62.5	31.2
DC 0750HC	KVA	3.60	6.87	3.75	7.20	7.56	4.12	7.89	4.31	8.25	4.50	6.87	7.15	14.4	7.56	15.7	8.25
	LV Amps	37.5	68.7	37.5	68.7	68.7	37.5	68.7	37.5	68.7	37.5	34.4	34.4	65.6	34.4	65.6	34.4
DO 1000HC	HV Amps	41.7	83.3	41.7	83.3	83.3	41.7	83.3	41.7	83.3	41.7	41.7	41.7	83.3	41.7	83.3	41.7
DC 1000HC	KVA	4.80	9.17	5.00	9.60	10.1	5.50	10.5	5.75	11.0	6.00	9.17	9.53	19.2	10.1	21.0	11.0
	LV Amps	50.0	91.7	50.0	91.7	91.7	50.0	91.7	50.0	91.7	50.0	45.8	45.8	87.5	45.8	87.5	45.8
DO 1500HC	HV Amps	62.5	125	62.5	125	125	62.5	125	62.5	125	62.5	62.5	62.5	125	62.5	125	62.5
DC 1500HC	KVA	7.20	13.7	7.50	14.4	15.1	8.25	15.8	8.62	16.5	9.00	13.7	14.3	28.9	15.1	31.5	16.5
	LV Amps	75.0	137	75.0	137	137	75.0	137	75.0	137	75.0	68.7	68.8	131	68.7	131	68.7
DO 2000HC	HV Amps	83.3	166	83.3	166	166	83.3	166	83.3	166	83.3	83.3	83.3	166	83.3	166	83.3
DC 2000HC	KVA	9.58	18.3	10.0	19.2	20.1	11.0	21.0	11.5	22.0	12.0	18.3	19.0	38.5	20.1	42.0	22.0
	LV Amps	99.8	183	100	183	183	100	183	100	183	100	91.7	91.7	175	91.6	175	91.6
DO 3000HC	HV Amps	125	250	125	250	250	125	250	125	250	125	125	125	250	125	250	125
DC 3000HC	KVA	14.4	27.5	15.0	28.8	30.2	16.5	31.5	17.2	33.0	18.0	27.5	28.6	57.7	30.2	63.0	33.0
	LV Amps	150	275	150	275	275	150	275	150	275	150	137	137	262	137	262	137
DO 5000HC	HV Amps	208	417	208	417	417	208	417	208	417	208	208	208	417	208	417	208
	KVA	24.0	45.8	25.0	48.0	50.4	27.5	52.7	28.7	55.0	30.0	45.8	47.7	96.3	50.4	105	55.0
	LV Amps	250	458	250	458	458	250	458	250	458	250	229	229	438	229	438	229
CONNECTION DIAGRAM		B	A	B	A	A	B	A	B	A	B	D	D	C	D	C	D

BUCK-BOOST TRANSFORMER SELECTION CHART USING STD DO/DC 120/240-16/32V TRANSFORMERS

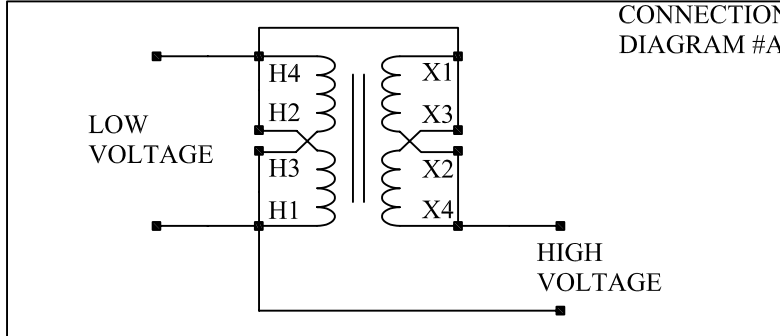
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CATALOG NUMBER	LOW VOLTAGE HIGH VOLTAGE	95 120	101 115	106 120	110 125	110 139	115 130	115 146	120 136	120 152	203 230	208 236	220 235	220 249	230 261	240 256	240 272
DO 0050HD	HV Amps	1.56	3.13	3.13	3.13	1.56	3.13	1.56	3.13	1.56	1.56	1.56	3.13	1.56	1.56	3.13	1.56
DC 0050HD	KVA	.188	.359	.375	.390	.218	.407	.228	.425	.238	.359	.368	.733	.390	.407	.800	.425
	LV Amps	1.98	3.54	3.54	3.54	1.98	3.54	1.98	3.54	1.98	1.77	1.77	3.33	1.77	1.77	3.33	1.77
DO 0100HD	HV Amps	3.12	6.25	6.25	6.25	3.12	6.25	3.12	6.25	3.12	3.12	3.12	6.25	3.12	3.12	6.25	3.12
DC 0100HD	KVA	.376	.718	.751	.779	.435	.815	.455	.850	.475	.719	.737	1.47	.779	.815	1.60	.850
	LV Amps	3.96	7.08	7.08	7.08	3.96	7.08	3.96	7.08	3.96	3.54	3.54	6.67	3.54	3.54	6.67	3.54
DO 0150HD	HV Amps	4.69	9.38	9.38	9.38	4.69	9.38	4.69	9.38	4.69	4.69	4.69	9.38	4.69	4.69	9.38	4.69
DC 0150HD	KVA	.564	1.07	1.13	1.17	.653	1.22	.683	1.28	.713	1.08	1.10	2.20	1.17	1.22	2.40	1.28
	LV Amps	5.94	10.6	10.6	10.6	5.94	10.6	5.94	10.6	5.94	5.31	5.31	10.0	5.31	5.31	10.0	5.31
DO 0200HD	HV Amps	6.25	12.5	12.5	12.5	6.25	12.5	6.25	12.5	6.25	6.25	6.25	12.5	6.25	6.25	12.5	6.25
DC 0200HD	KVA	.752	1.43	1.50	1.56	.871	1.63	0.91	1.70	.950	1.44	1.47	2.93	1.56	1.63	3.20	1.70
	LV Amps	7.92	14.2	14.2	14.2	7.92	14.2	7.92	14.2	7.92	7.08	7.08	13.3	7.08	7.08	13.3	7.08
DO 0250HD	HV Amps	7.81	15.6	15.6	15.6	7.81	15.6	7.81	15.6	7.81	7.81	7.81	15.6	7.81	7.81	15.6	7.81
DC 0250HD	KVA	0.94	1.80	1.87	1.95	1.09	2.04	1.14	2.12	1.19	1.80	1.84	3.67	1.95	2.04	4.00	2.12
	LV Amps	9.90	17.7	17.7	17.7	9.87	17.7	9.90	17.7	9.90	8.85	8.85	16.7	8.85	8.85	16.7	8.85
DO 0350HD	HV Amps	10.9	21.9	21.9	21.9	10.9	21.9	10.9	21.9	10.9	10.9	10.9	21.9	10.9	10.9	21.9	10.9
DC 0350HD	KVA	1.31	2.51	2.63	2.73	1.52	2.85	1.59	2.98	1.66	2.51	2.58	5.13	2.73	2.85	5.60	2.98
	LV Amps	13.9	24.8	24.8	24.8	13.9	24.8	13.9	24.8	13.9	12.4	12.4	23.3	12.4	12.4	23.3	12.4
DO 0500HD	HV Amps	15.6	31.2	31.2	31.2	15.6	31.2	15.6	31.2	15.6	15.6	15.6	31.2	15.6	15.6	31.2	15.6
DC 0500HD	KVA	1.88	3.59	3.75	3.90	2.18	4.07	2.28	4.25	2.37	3.59	3.68	7.33	3.90	4.07	8.00	4.25
	LV Amps	19.8	35.4	35.4	35.4	19.8	35.4	19.8	35.4	19.8	17.7	17.7	33.3	17.7	17.7	33.3	17.7
DO 0750HD	HV Amps	23.4	46.8	46.8	46.9	23.4	46.9	23.4	46.9	23.4	23.4	23.4	46.9	23.4	23.4	46.9	23.4
DC 0750HD	KVA	2.82	5.39	5.63	5.84	3.27	6.10	3.41	6.37	3.56	5.39	5.53	11.0	5.84	6.11	12.0	6.37
	LV Amps	29.7	53.1	53.1	53.1	29.7	53.1	29.7	53.1	29.7	26.6	26.6	50.0	26.6	26.6	50.0	26.6
DO 1000HD	HV Amps	31.2	62.5	62.5	62.5	31.2	62.5	31.2	62.5	31.2	31.2	31.2	62.5	31.2	31.2	62.5	31.2
DC 1000HD	KVA	3.76	7.18	7.50	7.79	4.35	8.15	4.55	8.50	4.75	7.19	7.37	14.7	7.79	8.15	16.0	8.50
	LV Amps	39.6	70.8	70.8	70.8	39.6	70.8	39.6	70.8	39.6	35.4	35.4	66.7	35.4	35.4	66.7	35.4
DO 1500HD	HV Amps	46.9	93.7	93.7	93.7	46.9	93.7	46.9	93.7	46.9	46.9	46.9	93.7	46.9	46.9	93.7	46.9
DC 1500HD	KVA	5.64	10.8	11.2	11.7	6.53	12.2	6.83	12.7	7.12	10.8	11.0	22.0	11.7	12.2	24.0	12.7
	LV Amps	59.4	106	106	106	59.4	106	59.4	106	59.4	53.1	53.1	100	53.1	53.1	100	53.1
DO 2000HD	HV Amps	62.5	125	125	125	62.5	125	62.5	125	62.5	62.5	62.5	125	62.5	62.5	125	62.5
DC 2000HD	KVA	7.50	14.4	15.0	15.6	8.71	16.3	9.10	17.0	9.50	14.4	14.7	29.3	15.6	16.3	32.0	17.0
	LV Amps	79.1	142	142	142	79.2	142	79.2	142	79.2	70.8	70.8	133	70.8	70.8	133	70.8
DO 3000HD	HV Amps	93.7	187	187	187	93.7	187	93.7	187	93.7	93.7	93.7	187	93.7	93.7	187	93.7
DC 3000HD	KVA	11.3	21.5	22.5	23.4	13.0	24.4	13.6	25.5	14.2	21.6	22.1	44.0	23.4	24.4	48.0	25.5
	LV Amps	119	212	212	212	119	212	119	212	119	106	106	200	106	106	200	106
DO 5000HD	HV Amps	156	312	312	312	156	312	156	312	156	156	156	312	156	156	312	156
	KVA	18.8	35.9	37.5	39.0	21.8	40.7	22.8	42.5	23.8	35.9	36.8	73.3	39.0	40.7	80.0	42.5
	LV Amps	198	354	354	354	198	354	198	354	198	177	177	333	177	177	333	177
CONNECTION DIAGRAM		B	A	A	A	B	A	B	A	B	D	D	C	D	D	C	D

BUCK-BOOST TRANSFORMER CONNECTION

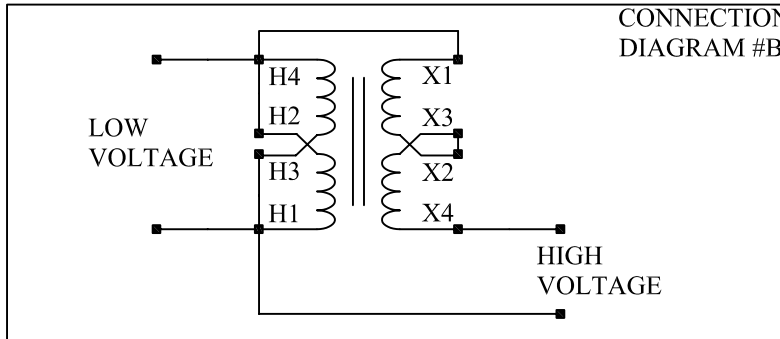
PARALLEL-PARALLEL

CONNECTION
DIAGRAM #A



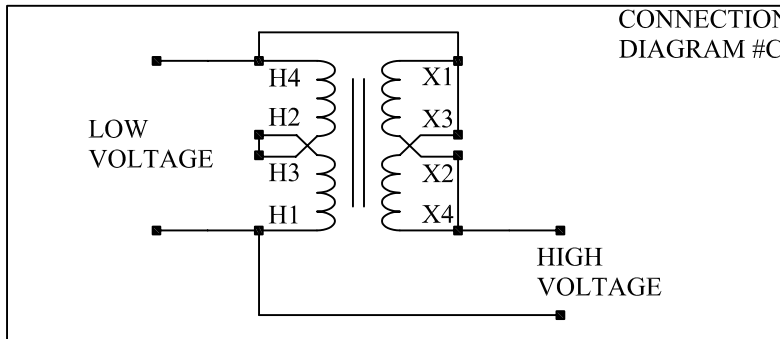
PARALLEL-SERIES

CONNECTION
DIAGRAM #B



SERIES-PARALLEL

CONNECTION
DIAGRAM #C



SERIES-SERIES

CONNECTION
DIAGRAM #D

