

Approximate Watts Loss

The following table lists watts loss data for PowerFlex 750-Series drives running at full load, full speed, and default carrier frequency.

Internal watts are the watts that the control structure of the drive dissipates into the cabinet, regardless of mounting style. External watts are the watts that are dissipated directly through the heatsink and are outside the cabinet for flange mount, and inside the cabinet for other mounting types.

Watts Loss for 208/240V Drives

Drive Cat. No. ⁽¹⁾⁽²⁾	Normal Duty		External Watts ⁽³⁾	Internal Watts ⁽³⁾	Total Watts ⁽³⁾	Drive Cat. No. ⁽¹⁾⁽²⁾	Normal Duty		External Watts ⁽³⁾	Internal Watts ⁽³⁾	Total Watts ⁽³⁾
	kW	Continuous Output Amps ⁽³⁾					Hp	Continuous Output Amps			
208 Volt						240 Volt					
20x...B2P2	0.37	2.5	34 (23)	57 (57)	91 (80)	20x...B2P2	0.5	2.2	29 (20)	61 (56)	90 (76)
20x...B4P2	0.75	4.8	63 (46)	60 (62)	124 (108)	20x...B4P2	1	4.2	52 (40)	63 (60)	115 (100)
20x...B6P8	1.5	7.8	80 (72)	64 (75)	144 (147)	20x...B6P8	2	6.8	67 (61)	66 (71)	133 (132)
20x...B9P6	2.2	11	110 (99)	70 (82)	180 (181)	20x...B9P6	3	9.6	92 (84)	71 (76)	163 (160)
20x...B015	4	17.5 (15.3)	169 (157)	76 (79)	245 (236)	20x...B015	5	15.3	141 (158)	76 (80)	217 (238)
20x...B022	5.5	22	237	87	324	20x...B022	7.5	22	240	92	331
20x...B028	7.5	32.2	328	104	432	20x...B028	10	28	272	98	370
20x...B042	11	43	459	122	581	20x...B042	15	42	458	125	583
20x...B054	15	60	505	132	637	20x...B054	20	54	439	128	567
20x...B070	18.5	78.2	643	152	796	20x...B070	25	70	557	146	703
20x...B080	22	92	788	181	969	20x...B080	30	80	653	163	816
20x...B104	30	120	1054	274	1327	20x...B104	40	104	874	252	1126
20x...B130	37	150	1184	266	1449	20x...B130	50	130	997	248	1245
20x...B154	45	177	1492	317	1808	20x...B154	60	154	1250	288	1538
20x...B192	55	221	1921	403	2324	20x...B192	75	192	1597	355	1952
20x...B260	66	260	2418	499	2917	20x...B260	100	260	2426	513	2939
20x...B312	90	359	3120	561	3681	20x...B312	125	312	2602	491	3094
20x...B360	110	414	3384	646	4029	20x...B360	150	360	2817	557	3373
20x...B477	132	477	4135	789	4924	20x...B477	200	477	4156	810	4966

(1) Select the watts loss based on the catalog number.

(2) Frames 8...10, enclosure codes B, J, L, P, and W.

(3) Frame 1 watts loss in parentheses.

Watts Loss for 400/480V Drives

Drive Cat. No. ⁽¹⁾⁽²⁾	Normal Duty		External Watts ⁽³⁾	Internal Watts ⁽³⁾	Total Watts ⁽³⁾	Drive Cat. No. ⁽¹⁾⁽²⁾	Normal Duty		External Watts ⁽³⁾	Internal Watts ⁽³⁾	Total Watts ⁽³⁾
	kW	Continuous Output Amps					Hp	Continuous Output Amps			
400 Volt						480 Volt					
20x...C2P1	0.75	2.1	16 (16)	55 (56)	71 (72)	20x...D2P1	1.0	2.1	17 (21)	60 (61)	77 (82)
20x...C3P5	1.5	3.5	26 (33)	57 (60)	83 (93)	20x...D3P4	2.0	3.4	27 (39)	61 (64)	88 (103)
20x...C5P0	2.2	5	39 (44)	58 (62)	97 (106)	20x...D5P0	3.0	5	41 (54)	63 (67)	104 (121)
20x...C8P7	4.0	8.7	75 (79)	64 (80)	139 (159)	20x...D8P0	5.0	8	71 (91)	68 (82)	139 (173)
20x...C011	5.5	11.5	108 (107)	70 (85)	178 (192)	20x...D011	7.5	11	108 (118)	74 (88)	182 (206)
20x...C015	7.5	15.4	161 (166)	80 (80)	241 (246)	20x...D014	10	14	149 (152)	81 (81)	230 (233)
20x...C022	11	22	225	86	311	20x...D022	15	22	237	91	328
20x...C030	15	30	300	103	403	20x...D027	20	27	273	101	374
20x...C037	18.5	37	362	115	477	20x...D034	25	34	368	115	483
20x...C043	22	43	505	126	631	20x...D040	30	40	503	126	629
20x...C060	30	60	487	130	617	20x...D052	40	52	422	125	547
20x...C072	37	72	615	147	762	20x...D065	50	65	559	144	703
20x...C085	45	85	705	162	867	20x...D077	60	77	646	158	804
20x...C104	55	104	928	201	1129	20x...D096	75	96	855	189	1044
20x...C140	75	140	1239	319	1558	20x...D125	100	125	1109	299	1408
20x...C170	90	170	1381	300	1681	20x...D156	125	156	1299	294	1593
20x...C205	110	205	1893	381	2274	20x...D186	150	186	1718	358	2076
20x...C260	132	260	2449	502	2951	20x...D248	200	248	2384	492	2876
20x...C302	160	302	2566	461	3027	20x...D302	250	302	2704	491	3195
20x...C367	200	367	3322	586	3908	20x...D361	300	361	3409	606	4015
20x...C456	250	456	3922	743	4665	20x...D415	350	415	3604	683	4287
2xG...C460	250	460	4779	1090	5869	2xG...D430	350	430	4385	971	5356
20x...C477	270	477	4199	793	4992	20x...D477	400	477	4392	828	5220
2xG...C540	315	540	5316	1216	6532	2xG...D485	400	485	5091	1126	6217
2xG...C567	315	567	5652	1298	6950	2xG...D545	450	545	5649	1253	6902
2xG...C650	355	650	7011	1577	8588	2xG...D617	500	617	6942	1489	8431
2xG...C750	400	750	7577	1726	9303	2xG...D710	600	710	7631	1659	9290
2xG...C770	400	770	8086	1848	9934	2xG...D740	650	740	8133	1776	9909
2xG...C910	500	910	9155	2251	11406	2xG...D800	700	800	8710	2216	10926
2xG...C1K0	560	1040	9732	2357	12089	2xG...D960	800	960	9696	2391	12087
2xG...C1K1	630	1090	10745	2548	13293	2xG...D1K0	900	1045	10784	2589	13373
2xG...C1K2	710	1175	13778	2978	16756	2xG...D1K2	1000	1135	13378	2899	16277
2xG...C1K4	800	1465	13959	3013	16973	2xG...D1K3	1100	1365	14055	3025	17080
2xG...C1K5	850	1480	15441	3308	18749	2xG...D1K4	1250	1420	15573	3314	18887
2xG...C1K6	900	1590	15569	3717	19286	2xG...D1K5	1350	1525	15619	3779	19398
2xG...C2K1	1250	2150	22320	4790	27110	2xG...D2K0	1750	2070	22495	4802	27297

- (1) Select the watts loss based on the catalog number.
- (2) Frames 8...10, enclosure codes B, J, L, P, and W.
- (3) Frame 1 watts loss in parentheses.

Watts Loss for 600/690V Drives

Drive Cat. No. ⁽¹⁾⁽²⁾	Normal Duty		External Watts	Internal Watts	Total Watts	Drive Cat. No. ⁽¹⁾⁽²⁾	Normal Duty		External Watts	Internal Watts	Total Watts
	kW	Continuous Output Amps					Hp	Continuous Output Amps			
690 Volt						600 Volt					
						20x...E1P7	1.0	1.7	23	15	38
						20x...E2P7	2.0	2.7	40	17	57
						20x...E3P9	3.0	3.9	51	18	69
						20x...E6P1	5.0	6.1	80	22	103
						20x...E9P0	7.5	9	122	29	150
						20x...E011	10	11	152	34	186
20x...F012	7.5	12	169	50	219	20x...E012	10	12	168	50	217
						20x...E017	15	17	249	54	302
						20x...F015	11	15	226	56	282
						20x...E022	20	22	329	74	403
						20x...F020	15	20	296	65	361
						20x...E024	20	24	326	71	397
						20x...F023	18.5	23	327	70	397
						20x...E028	25	28	375	79	453
						20x...F030	22	30	428	85	513
						20x...E033	30	33	439	90	528
						20x...F034	30	34	478	94	573
						20x...E042	40	42	555	112	667
						20x...F046	37	46	649	126	775
						20x...E053	50	53	711	144	855
						20x...F050	45	50	699	138	836
						20x...E077	75	77	935	166	1101
						20x...F061	55	61	760	130	891
						20x...E125	125	125	1678	318	1996
						20x...F082	75	82	1044	182	1226
						20x...E192	200	192	2801	433	3234
						20x...F098	90	98	1310	231	1541
						20x...E289	300	289	4437	762	5200
						20x...F119	110	119	1658	302	1961
						2xG...E355	350	355	5191	1131	6321
						20x...F142	132	142	2003	387	2391
						2xG...E435	450	435	5590	1163	6753
						20x...F171	160	171	2655	389	3044
						2xG...E510	500	510	6946	1396	8342
						20x...F212	200	212	3375	513	3889
						2xG...E630	700	630	9942	2225	12167
						20x...F263	250	263	4286	690	4976
						2xG...E825	900	825	11046	2342	13389
						2xG...F330	315	330	5160	1127	6287
						2xG...E980	1000	980	13211	2709	15920
						2xG...F370	355	370	5803	1233	7036
						2xG...E1K4	1400	1430	19256	3966	23222
						2xG...F415	400	415	5865	1211	7076
						2xG...F460	450	460	6638	1337	7975
						2xG...F500	500	500	7117	1417	8534
						2xG...F590	560	590	8941	2077	11019
						2xG...F650	630	650	9865	2220	12085
						2xG...F710	710	710	11136	2425	13561
						2xG...F765	750	765	11139	2368	13507
						2xG...F795	800	795	12663	2611	15275
						2xG...F960	900	860	13608	2767	16375
						2xG...F1K0	1000	1040	16147	3545	19692
						2xG...F1K4	1400	1400	19716	4034	23750

(1) Select the watts loss based on the catalog number.
 (2) Frames 8...10, enclosure codes B, L, P, and W.

Additional Watts Loss for Cabinet Options Bay

Drive Cat. No. ⁽¹⁾	Normal Duty		Cabinet Options Bay		Drive Cat. No. ⁽¹⁾	Normal Duty		Cabinet Options Bay	
	kW	Continuous Output Amps	Without Input or Output Line Reactor (Watts) ⁽²⁾	With Input or Output Line Reactor (Watts) ⁽²⁾		Hp	Continuous Output Amps	Without Input or Output Line Reactor (Watts) ⁽²⁾	With Input or Output Line Reactor (Watts) ⁽²⁾
400V					480V				
21G...C460	250	460	219	626	21G...D430	350	430	177	652
21G...C540	315	540	256	735	21G...D485	400	485	204	652
21G...C567	315	567	280	792	21G...D545	450	545	239	725
21G...C650	355	650	359	1123	21G...D617	500	617	295	983
21G...C750	400	750	404	1549	21G...D710	600	710	355	1410
21G...C770	400	770	441	1692	21G...D740	650	740	388	1542
21G...C910	500	910	327	2425	21G...D800	700	800	246	1867
21G...C1K0	560	1040	350	2651	21G...D960	800	960	364	2325
21G...C1K1	630	1090	384	2912	21G...D1K0	900	1045	353	2677
21G...C1K2	710	1175	446	3384	21G...D1K2	1000	1135	416	3158
21G...C1K4	800	1465	662	3520	21G...D1K3	1100	1365	574	3056
21G...C1K5	850	1480	675	3593	21G...D1K4	1250	1420	622	3307
690V					600V				
21G...F265	250	265	266	1090	21G...E295	300	295	233	838
21G...F330	315	330	304	1067	21G...E355	350	355	289	902
21G...F370	355	370	343	1288	21G...E395	400	395	328	759
21G...F415	400	415	379	1547	21G...E435	450	435	354	1208
21G...F460	450	460	240	1195	21G...E460	500	460	379	1327
21G...F500	500	500	251	1315	21G...E510	500	510	410	1450
21G...F590	560	590	134	2617	21G...E595	600	595	136	1659
21G...F650	630	650	162	3175	21G...E630	700	630	153	1860
21G...F710	710	710	194	2362	21G...E760	800	760	222	2706
21G...F765	750	765	225	2742	21G...E825	900	825	269	3196
21G...F795	800	795	243	2961	21G...E900	950	900	320	2372
21G...F960	900	960	364	2699	21G...E980	1000	980	310	2744

(1) Select the watts loss based on the catalog number.

(2) For MCC power bus options, add the following watts: 1250 A power bus = 188 watts; 2000 A power bus = 261 watts; 3200 A power bus = 421 watts.