



Stator lengths available:

Model	Length (in)	mm	Cont. Watts
1506	1.8	46mm	500
1509	2.1	53mm	750
1512	2.4	61mm	1,000
1515	2.7	69mm	1,250
1518	3.3	84mm	1,500
1521	3.3	84mm	1,750
1524	4.0	102mm	2,000
1527	4.0	102mm	2,250
1530	4.3	108mm	2,750
1533	5.2	132mm	3,000
1536	5.2	132mm	3,250
1539	5.2	132mm	3,500

38mm OD 1500 series motors are amongst our most popular motors. Operating at up to 5,500w, the Neu 1500 series are highly configurable in case length and type, and they are offered with numerous cooling and gearbox options. The 1500 series is a great choice for high power density, high-rpm applications.

- UAVs
- Race car cooling systems
- industrial drills
- cooling fans
- pumps

Motor type: inrunner

Poles: 4p

Slots: 12s

Finned: Optional

Sealed: Optional

Sensored: Optional

Gearbox(es): P32, P42

Shaft size(s): 3.17 or 5mm

Max RPM: 60,000

1506

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.5	1.8	6 ozs.	500	1,000
mm: 38	46	170g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant		Max Volts	Max Amps
				mNm/A	inOz/A		
1506/6D	1,650	0.029	0.8	5.799	0.821	36	28
1506/5.75D	1,722	0.026	0.8	5.557	0.787	35	29
1506/5.5D	1,800	0.024	0.8	5.316	0.753	33	30
1506/3Y	1,833	0.022	0.8	5.219	0.739	33	31
1506/5.25D	1,886	0.022	0.9	5.074	0.719	32	31
1506/5D	1,980	0.020	0.9	4.833	0.684	30	33
1506/2.75Y	2,000	0.018	0.9	4.784	0.678	30	33
1506/4.75D	2,084	0.018	0.9	4.591	0.650	29	35
1506/4.5D	2,200	0.016	1.0	4.349	0.616	27	37
1506/2.5Y	2,200	0.015	1.0	4.349	0.616	27	37
1506/4.25D	2,329	0.014	1.1	4.108	0.582	26	39
1506/2.25Y	2,444	0.012	1.1	3.914	0.554	25	41
1506/4D	2,475	0.013	1.1	3.866	0.547	24	41
1506/3.75D	2,640	0.011	1.2	3.624	0.513	23	44
1506/2Y	2,750	0.010	1.3	3.479	0.493	22	46
1506/3.5D	2,829	0.010	1.3	3.383	0.479	21	47
1506/3.25D	3,046	0.008	1.4	3.141	0.445	20	51
1506/1.75Y	3,143	0.007	1.4	3.044	0.431	19	52
1506/3D	3,300	0.007	1.5	2.900	0.411	18	55
1506/2.75D	3,600	0.006	1.6	2.658	0.376	17	60
1506/1.5Y	3,667	0.005	1.7	2.610	0.370	16	61
1506/2.5D	3,960	0.005	1.8	2.416	0.342	15	66
1506/2.25D	4,400	0.004	2.0	2.175	0.308	14	73
1506/1.25Y	4,400	0.004	2.0	2.175	0.308	14	73
1506/2D	4,950	0.003	2.3	1.933	0.274	12	83
1506/1Y	5,500	0.002	2.5	1.740	0.246	11	92
1506/1.75D	5,657	0.002	2.6	1.691	0.240	11	94
1506/1.5D	6,600	0.002	3.0	1.450	0.205	9	110
1506/0.75Y	7,333	0.001	3.3	1.305	0.185	8	122
1506/1.25D	7,920	0.001	3.6	1.208	0.171	8	132
1506/1D	9,900	0.001	4.5	0.967	0.137	6	165

1509

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.5	2.1	7.5 ozs.	750	1,500
mm: 38	53	212g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant		Max Volts	Max Amps
				mNm/A	inOz/A		
1509/6D	1,100	0.043	0.8	8.699	1.232	55	28
1509/5.75D	1,148	0.040	0.8	8.336	1.180	52	29
1509/5.5D	1,200	0.036	0.8	7.974	1.129	50	30
1509/3Y	1,222	0.032	0.8	7.829	1.109	49	31
1509/5.25D	1,257	0.033	0.9	7.611	1.078	48	31
1509/5D	1,320	0.030	0.9	7.249	1.027	45	33
1509/2.75Y	1,333	0.027	0.9	7.176	1.016	45	33
1509/4.75D	1,389	0.027	0.9	6.886	0.975	43	35
1509/2.5Y	1,467	0.023	1.0	6.524	0.924	41	37
1509/4.5D	1,467	0.024	1.0	6.524	0.924	41	37
1509/4.25D	1,553	0.022	1.1	6.161	0.873	39	39
1509/2.25Y	1,630	0.018	1.1	5.872	0.831	37	41
1509/4D	1,650	0.019	1.1	5.799	0.821	36	41
1509/3.75D	1,760	0.017	1.2	5.437	0.770	34	44
1509/2Y	1,833	0.014	1.3	5.219	0.739	33	46
1509/3.5D	1,886	0.015	1.3	5.074	0.719	32	47
1509/3.25D	2,031	0.013	1.4	4.712	0.667	30	51
1509/1.75Y	2,095	0.011	1.4	4.567	0.647	29	52
1509/3D	2,200	0.011	1.5	4.349	0.616	27	55
1509/2.75D	2,400	0.009	1.6	3.987	0.565	25	60
1509/1.5Y	2,444	0.008	1.7	3.914	0.554	25	61
1509/2.5D	2,640	0.007	1.8	3.624	0.513	23	66
1509/1.25Y	2,933	0.006	2.0	3.262	0.462	20	73
1509/2.25D	2,933	0.006	2.0	3.262	0.462	20	73
1509/2D	3,300	0.005	2.3	2.900	0.411	18	83
1509/1Y	3,667	0.004	2.5	2.610	0.370	16	92
1509/1.75D	3,771	0.004	2.6	2.537	0.359	16	94
1509/1.5D	4,400	0.003	3.0	2.175	0.308	14	110
1509/0.75Y	4,889	0.002	3.3	1.957	0.277	12	122
1509/1.25D	5,280	0.002	3.6	1.812	0.257	11	132
1509/1D	6,600	0.001	4.5	1.450	0.205	9	165
1509/0.5Y	7,333	0.001	5.0	1.305	0.185	8	183
1509/0.75D	8,800	0.001	6.0	1.087	0.154	7	220

1512

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.5	2.4	9.9 ozs.	1,000	2,000
mm: 38	61	280g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant		Max Volts	Max Amps
				mNm/A	inOz/A		
1512/6D	825	0.058	0.8	11.598	1.642	73	28
1512/5.75D	861	0.053	0.8	11.115	1.574	70	29
1512/5.5D	900	0.048	0.8	10.632	1.506	67	30
1512/3Y	917	0.043	0.8	10.438	1.478	65	31
1512/5.25D	943	0.044	0.9	10.148	1.437	64	31
1512/5D	990	0.040	0.9	9.665	1.369	61	33
1512/2.75Y	1,000	0.036	0.9	9.568	1.355	60	33
1512/4.75D	1,042	0.036	0.9	9.182	1.300	58	35
1512/4.5D	1,100	0.032	1.0	8.699	1.232	55	37
1512/2.5Y	1,100	0.030	1.0	8.699	1.232	55	37
1512/4.25D	1,165	0.029	1.1	8.215	1.163	52	39
1512/2.25Y	1,222	0.024	1.1	7.829	1.109	49	41
1512/4D	1,238	0.026	1.1	7.732	1.095	48	41
1512/3.75D	1,320	0.022	1.2	7.249	1.027	45	44
1512/2Y	1,375	0.019	1.3	6.959	0.985	44	46
1512/3.5D	1,414	0.020	1.3	6.766	0.958	42	47
1512/3.25D	1,523	0.017	1.4	6.282	0.890	39	51
1512/1.75Y	1,571	0.015	1.4	6.089	0.862	38	52
1512/3D	1,650	0.014	1.5	5.799	0.821	36	55
1512/2.75D	1,800	0.012	1.6	5.316	0.753	33	60
1512/1.5Y	1,833	0.011	1.7	5.219	0.739	33	61
1512/2.5D	1,980	0.010	1.8	4.833	0.684	30	66
1512/2.25D	2,200	0.008	2.0	4.349	0.616	27	73
1512/1.25Y	2,200	0.008	2.0	4.349	0.616	27	73
1512/2D	2,475	0.006	2.3	3.866	0.547	24	83
1512/1Y	2,750	0.005	2.5	3.479	0.493	22	92
1512/1.75D	2,829	0.005	2.6	3.383	0.479	21	94
1512/1.5D	3,300	0.004	3.0	2.900	0.411	18	110
1512/0.75Y	3,667	0.003	3.3	2.610	0.370	16	122
1512/1.25D	3,960	0.002	3.6	2.416	0.342	15	132
1512/1D	4,950	0.002	4.5	1.933	0.274	12	165
1512/0.5Y	5,500	0.001	5.0	1.740	0.246	11	183
1512/0.75D	6,600	0.001	6.0	1.450	0.205	9	220
1512/0.5D	9,900	0.000	9.0	0.967	0.137	6	330

1515

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.5	2.7	12 ozs.	1,250	2,000
mm: 38	69	340g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant		Max Volts	Max Amps
				mNm/A	inOz/A		
1515/6D	660	0.072	0.8	14.498	2.053	91	22
1515/5.75D	689	0.066	0.8	13.894	1.967	87	23
1515/5.5D	720	0.060	0.8	13.289	1.882	83	24
1515/3Y	733	0.054	0.8	13.048	1.848	82	24
1515/5.25D	754	0.055	0.9	12.685	1.796	80	25
1515/5D	792	0.050	0.9	12.081	1.711	76	26
1515/2.75Y	800	0.045	0.9	11.961	1.694	75	27
1515/4.75D	834	0.045	0.9	11.477	1.625	72	28
1515/2.5Y	880	0.038	1.0	10.873	1.540	68	29
1515/4.5D	880	0.040	1.0	10.873	1.540	68	29
1515/4.25D	932	0.036	1.1	10.269	1.454	64	31
1515/2.25Y	978	0.030	1.1	9.786	1.386	61	33
1515/4D	990	0.032	1.1	9.665	1.369	61	33
1515/3.75D	1,056	0.028	1.2	9.061	1.283	57	35
1515/2Y	1,100	0.024	1.3	8.699	1.232	55	37
1515/3.5D	1,131	0.024	1.3	8.457	1.198	53	38
1515/3.25D	1,218	0.021	1.4	7.853	1.112	49	41
1515/1.75Y	1,257	0.018	1.4	7.611	1.078	48	42
1515/3D	1,320	0.018	1.5	7.249	1.027	45	44
1515/2.75D	1,440	0.015	1.6	6.645	0.941	42	48
1515/1.5Y	1,467	0.014	1.7	6.524	0.924	41	49
1515/2.5D	1,584	0.012	1.8	6.041	0.855	38	53
1515/1.25Y	1,760	0.009	2.0	5.437	0.770	34	59
1515/2.25D	1,760	0.010	2.0	5.437	0.770	34	59
1515/2D	1,980	0.008	2.3	4.833	0.684	30	66
1515/1Y	2,200	0.006	2.5	4.349	0.616	27	73
1515/1.75D	2,263	0.006	2.6	4.228	0.599	27	75
1515/1.5D	2,640	0.004	3.0	3.624	0.513	23	88
1515/0.75Y	2,933	0.003	3.3	3.262	0.462	20	98
1515/1.25D	3,168	0.003	3.6	3.020	0.428	19	106
1515/1D	3,960	0.002	4.5	2.416	0.342	15	132
1515/0.5Y	4,400	0.002	5.0	2.175	0.308	14	147
1515/0.75D	5,280	0.001	6.0	1.812	0.257	11	176
1515/0.5D	7,920	0.000	9.0	1.208	0.171	8	264
1515/0.25Y	8,800	0.000	10.0	1.087	0.154	7	293

1518

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.5	3.3	14.5 ozs.	1,500	3,000
mm: 38	84	410g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant		Max Volts	Max Amps
				mNm/A	inOz/A		
1518/6D	550	0.086	0.8	17.397	2.464	109	28
1518/5.75D	574	0.079	0.8	16.672	2.361	105	29
1518/5.5D	600	0.073	0.8	15.947	2.258	100	30
1518/3Y	611	0.065	0.8	15.657	2.217	98	31
1518/5.25D	629	0.066	0.9	15.222	2.156	95	31
1518/5D	660	0.060	0.9	14.498	2.053	91	33
1518/2.75Y	667	0.054	0.9	14.353	2.033	90	33
1518/4.75D	695	0.054	0.9	13.773	1.950	86	35
1518/2.5Y	733	0.045	1.0	13.048	1.848	82	37
1518/4.5D	733	0.049	1.0	13.048	1.848	82	37
1518/4.25D	776	0.043	1.1	12.323	1.745	77	39
1518/2.25Y	815	0.036	1.1	11.743	1.663	74	41
1518/4D	825	0.038	1.1	11.598	1.642	73	41
1518/3.75D	880	0.034	1.2	10.873	1.540	68	44
1518/2Y	917	0.029	1.3	10.438	1.478	65	46
1518/3.5D	943	0.029	1.3	10.148	1.437	64	47
1518/3.25D	1,015	0.025	1.4	9.423	1.334	59	51
1518/1.75Y	1,048	0.022	1.4	9.133	1.293	57	52
1518/3D	1,100	0.022	1.5	8.699	1.232	55	55
1518/2.75D	1,200	0.018	1.6	7.974	1.129	50	60
1518/1.5Y	1,222	0.016	1.7	7.829	1.109	49	61
1518/2.5D	1,320	0.015	1.8	7.249	1.027	45	66
1518/1.25Y	1,467	0.011	2.0	6.524	0.924	41	73
1518/2.25D	1,467	0.012	2.0	6.524	0.924	41	73
1518/2D	1,650	0.010	2.3	5.799	0.821	36	83
1518/1Y	1,833	0.007	2.5	5.219	0.739	33	92
1518/1.75D	1,886	0.007	2.6	5.074	0.719	32	94
1518/1.5D	2,200	0.005	3.0	4.349	0.616	27	110
1518/0.75Y	2,444	0.004	3.3	3.914	0.554	25	122
1518/1.25D	2,640	0.004	3.6	3.624	0.513	23	132
1518/1D	3,300	0.002	4.5	2.900	0.411	18	165
1518/0.5Y	3,667	0.002	5.0	2.610	0.370	16	183
1518/0.75D	4,400	0.001	6.0	2.175	0.308	14	220
1518/0.5D	6,600	0.001	9.0	1.450	0.205	9	330
1518/0.25Y	7,333	0.000	10.0	1.305	0.185	8	367

1521

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.5	3.3	16.9 ozs.	1,750	3,500
mm: 38	84	478g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant		Max Volts	Max Amps
				mNm/A	inOz/A		
1521/6D	471	0.101	0.8	20.297	2.874	127	28
1521/5.75D	492	0.093	0.8	19.451	2.754	122	29
1521/5.5D	514	0.085	0.8	18.605	2.635	117	30
1521/3Y	524	0.076	0.8	18.267	2.587	115	31
1521/5.25D	539	0.077	0.9	17.760	2.515	111	31
1521/5D	566	0.070	0.9	16.914	2.395	106	33
1521/2.75Y	571	0.064	0.9	16.745	2.371	105	33
1521/4.75D	595	0.063	0.9	16.068	2.275	101	35
1521/4.5D	629	0.057	1.0	15.222	2.156	95	37
1521/2.5Y	629	0.053	1.0	15.222	2.156	95	37
1521/4.25D	666	0.051	1.1	14.377	2.036	90	39
1521/2.25Y	698	0.043	1.1	13.700	1.940	86	41
1521/4D	707	0.045	1.1	13.531	1.916	85	41
1521/3.75D	754	0.039	1.2	12.685	1.796	80	44
1521/2Y	786	0.034	1.3	12.178	1.725	76	46
1521/3.5D	808	0.034	1.3	11.840	1.677	74	47
1521/3.25D	870	0.030	1.4	10.994	1.557	69	51
1521/1.75Y	898	0.026	1.4	10.656	1.509	67	52
1521/3D	943	0.025	1.5	10.148	1.437	64	55
1521/2.75D	1,029	0.021	1.6	9.303	1.317	58	60
1521/1.5Y	1,048	0.019	1.7	9.133	1.293	57	61
1521/2.5D	1,131	0.017	1.8	8.457	1.198	53	66
1521/1.25Y	1,257	0.013	2.0	7.611	1.078	48	73
1521/2.25D	1,257	0.014	2.0	7.611	1.078	48	73
1521/2D	1,414	0.011	2.3	6.766	0.958	42	83
1521/1Y	1,571	0.008	2.5	6.089	0.862	38	92
1521/1.75D	1,616	0.009	2.6	5.920	0.838	37	94
1521/1.5D	1,886	0.006	3.0	5.074	0.719	32	110
1521/0.75Y	2,095	0.005	3.3	4.567	0.647	29	122
1521/1.25D	2,263	0.004	3.6	4.228	0.599	27	132
1521/1D	2,829	0.003	4.5	3.383	0.479	21	165
1521/0.5Y	3,143	0.002	5.0	3.044	0.431	19	183
1521/0.75D	3,771	0.002	6.0	2.537	0.359	16	220
1521/0.5D	5,657	0.001	9.0	1.691	0.240	11	330
1521/0.25Y	6,286	0.001	10.0	1.522	0.216	10	367

1524

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.5	4.0	19.4 ozs.	2,000	4,000
mm: 38	102	549g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A inOz/A	Max Volts	Max Amps
1524/6D	413	0.115	0.8	23.196 3.285	145	28
1524/5.75D	430	0.106	0.8	22.230 3.148	139	29
1524/5.5D	450	0.097	0.8	21.263 3.011	133	30
1524/3Y	458	0.086	0.8	20.877 2.956	131	31
1524/5.25D	471	0.088	0.9	20.297 2.874	127	31
1524/5D	495	0.080	0.9	19.330 2.737	121	33
1524/2.75Y	500	0.073	0.9	19.137 2.710	120	33
1524/4.75D	521	0.072	0.9	18.364 2.601	115	35
1524/4.5D	550	0.065	1.0	17.397 2.464	109	37
1524/2.5Y	550	0.060	1.0	17.397 2.464	109	37
1524/4.25D	582	0.058	1.1	16.431 2.327	103	39
1524/2.25Y	611	0.049	1.1	15.657 2.217	98	41
1524/4D	619	0.051	1.1	15.464 2.190	97	41
1524/3.75D	660	0.045	1.2	14.498 2.053	91	44
1524/2Y	688	0.038	1.3	13.918 1.971	87	46
1524/3.5D	707	0.039	1.3	13.531 1.916	85	47
1524/3.25D	762	0.034	1.4	12.565 1.779	79	51
1524/1.75Y	786	0.029	1.4	12.178 1.725	76	52
1524/3D	825	0.029	1.5	11.598 1.642	73	55
1524/2.75D	900	0.024	1.6	10.632 1.506	67	60
1524/1.5Y	917	0.022	1.7	10.438 1.478	65	61
1524/2.5D	990	0.020	1.8	9.665 1.369	61	66
1524/1.25Y	1,100	0.015	2.0	8.699 1.232	55	73
1524/2.25D	1,100	0.016	2.0	8.699 1.232	55	73
1524/2D	1,238	0.013	2.3	7.732 1.095	48	83
1524/1Y	1,375	0.010	2.5	6.959 0.985	44	92
1524/1.75D	1,414	0.010	2.6	6.766 0.958	42	94
1524/1.5D	1,650	0.007	3.0	5.799 0.821	36	110
1524/0.75Y	1,833	0.005	3.3	5.219 0.739	33	122
1524/1.25D	1,980	0.005	3.6	4.833 0.684	30	132
1524/1D	2,475	0.003	4.5	3.866 0.547	24	165
1524/0.5Y	2,750	0.002	5.0	3.479 0.493	22	183
1524/0.75D	3,300	0.002	6.0	2.900 0.411	18	220
1524/0.5D	4,950	0.001	9.0	1.933 0.274	12	330
1524/0.25Y	5,500	0.001	10.0	1.740 0.246	11	367

1524

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.5	4.0	19.4 ozs.	2,000	4,000
mm: 38	102	549g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A inOz/A	Max Volts	Max Amps
1524/0.25D	9,900	0.000	18.0	0.967 0.137	6	660

1527

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.5	4.0	21.8 ozs.	2,250	4,500
mm: 38	102	617g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A inOz/A	Max Volts	Max Amps
1527/6D	367	0.130	0.8	26.096 3.695	164	28
1527/5.75D	383	0.119	0.8	25.008 3.541	157	29
1527/5.5D	400	0.109	0.8	23.921 3.388	150	30
1527/3Y	407	0.097	0.8	23.486 3.326	147	31
1527/5.25D	419	0.099	0.9	22.834 3.234	143	31
1527/5D	440	0.090	0.9	21.746 3.080	136	33
1527/2.75Y	444	0.082	0.9	21.529 3.049	135	33
1527/4.75D	463	0.081	0.9	20.659 2.926	130	35
1527/4.5D	489	0.073	1.0	19.572 2.772	123	37
1527/2.5Y	489	0.068	1.0	19.572 2.772	123	37
1527/4.25D	518	0.065	1.1	18.484 2.618	116	39
1527/2.25Y	543	0.055	1.1	17.615 2.494	110	41
1527/4D	550	0.058	1.1	17.397 2.464	109	41
1527/3.75D	587	0.051	1.2	16.310 2.310	102	44
1527/2Y	611	0.043	1.3	15.657 2.217	98	46
1527/3.5D	629	0.044	1.3	15.222 2.156	95	47
1527/3.25D	677	0.038	1.4	14.135 2.002	89	51
1527/1.75Y	698	0.033	1.4	13.700 1.940	86	52
1527/3D	733	0.032	1.5	13.048 1.848	82	55
1527/2.75D	800	0.027	1.6	11.961 1.694	75	60
1527/1.5Y	815	0.024	1.7	11.743 1.663	74	61
1527/2.5D	880	0.022	1.8	10.873 1.540	68	66
1527/2.25D	978	0.018	2.0	9.786 1.386	61	73
1527/1.25Y	978	0.017	2.0	9.786 1.386	61	73
1527/2D	1,100	0.014	2.3	8.699 1.232	55	83
1527/1Y	1,222	0.011	2.5	7.829 1.109	49	92
1527/1.75D	1,257	0.011	2.6	7.611 1.078	48	94

1527

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.5	4.0	21.8 ozs.	2,250	4,500
mm: 38	102	617g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant		Max Volts	Max Amps
				mNm/A	inOz/A		
1527/1.5D	1,467	0.008	3.0	6.524	0.924	41	110
1527/0.75Y	1,630	0.006	3.3	5.872	0.831	37	122
1527/1.25D	1,760	0.006	3.6	5.437	0.770	34	132
1527/1D	2,200	0.004	4.5	4.349	0.616	27	165
1527/0.5Y	2,444	0.003	5.0	3.914	0.554	25	183
1527/0.75D	2,933	0.002	6.0	3.262	0.462	20	220
1527/0.5D	4,400	0.001	9.0	2.175	0.308	14	330
1527/0.25Y	4,889	0.001	10.0	1.957	0.277	12	367
1527/0.25D	8,800	0.000	18.0	1.087	0.154	7	660

1530

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.5	4.3	24.5 ozs.	2,750	5,500
mm: 38	108	693g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant		Max Volts	Max Amps
				mNm/A	inOz/A		
1530/6D	330	0.144	0.8	28.995	4.106	182	30
1530/5.75D	344	0.132	0.8	27.787	3.935	174	32
1530/5.5D	360	0.121	0.8	26.579	3.764	167	33
1530/3Y	367	0.108	0.8	26.096	3.695	164	34
1530/5.25D	377	0.110	0.9	25.371	3.593	159	35
1530/5D	396	0.100	0.9	24.163	3.422	152	36
1530/2.75Y	400	0.091	0.9	23.921	3.388	150	37
1530/4.75D	417	0.090	0.9	22.955	3.251	144	38
1530/2.5Y	440	0.075	1.0	21.746	3.080	136	40
1530/4.5D	440	0.081	1.0	21.746	3.080	136	40
1530/4.25D	466	0.072	1.1	20.538	2.908	129	43
1530/2.25Y	489	0.061	1.1	19.572	2.772	123	45
1530/4D	495	0.064	1.1	19.330	2.737	121	45
1530/3.75D	528	0.056	1.2	18.122	2.566	114	48
1530/2Y	550	0.048	1.3	17.397	2.464	109	50
1530/3.5D	566	0.049	1.3	16.914	2.395	106	52
1530/3.25D	609	0.042	1.4	15.706	2.224	98	56
1530/1.75Y	629	0.037	1.4	15.222	2.156	95	58
1530/3D	660	0.036	1.5	14.498	2.053	91	61

1530

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.5	4.3	24.5 ozs.	2,750	5,500
mm: 38	108	693g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant		Max Volts	Max Amps
				mNm/A	inOz/A		
1530/2.75D	720	0.030	1.6	13.289	1.882	83	66
1530/1.5Y	733	0.027	1.7	13.048	1.848	82	67
1530/2.5D	792	0.025	1.8	12.081	1.711	76	73
1530/1.25Y	880	0.019	2.0	10.873	1.540	68	81
1530/2.25D	880	0.020	2.0	10.873	1.540	68	81
1530/2D	990	0.016	2.3	9.665	1.369	61	91
1530/1Y	1,100	0.012	2.5	8.699	1.232	55	101
1530/1.75D	1,131	0.012	2.6	8.457	1.198	53	104
1530/1.5D	1,320	0.009	3.0	7.249	1.027	45	121
1530/0.75Y	1,467	0.007	3.3	6.524	0.924	41	134
1530/1.25D	1,584	0.006	3.6	6.041	0.855	38	145
1530/1D	1,980	0.004	4.5	4.833	0.684	30	182
1530/0.5Y	2,200	0.003	5.0	4.349	0.616	27	202
1530/0.75D	2,640	0.002	6.0	3.624	0.513	23	242
1530/0.5D	3,960	0.001	9.0	2.416	0.342	15	363
1530/0.25Y	4,400	0.001	10.0	2.175	0.308	14	403
1530/0.25D	7,920	0.000	18.0	1.208	0.171	8	726

1533

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.5	5.2	27.3 ozs.	3,000	6,000
mm: 38	132	773g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant		Max Volts	Max Amps
				mNm/A	inOz/A		
1533/6D	300	0.158	0.8	31.895	4.517	200	30
1533/5.75D	313	0.145	0.8	30.566	4.328	192	31
1533/5.5D	327	0.133	0.8	29.237	4.140	183	33
1533/3Y	333	0.119	0.8	28.705	4.065	180	33
1533/5.25D	343	0.121	0.9	27.908	3.952	175	34
1533/5D	360	0.110	0.9	26.579	3.764	167	36
1533/2.75Y	364	0.100	0.9	26.313	3.726	165	36
1533/4.75D	379	0.099	0.9	25.250	3.576	158	38
1533/2.5Y	400	0.083	1.0	23.921	3.388	150	40
1533/4.5D	400	0.089	1.0	23.921	3.388	150	40
1533/4.25D	424	0.079	1.1	22.592	3.199	142	42

1533

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.5	5.2	27.3 ozs.	3,000	6,000
mm: 38	132	773g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant		Max Volts	Max Amps
				mNm/A	inOz/A		
1533/2.25Y	444	0.067	1.1	21.529	3.049	135	44
1533/4D	450	0.070	1.1	21.263	3.011	133	45
1533/3.75D	480	0.062	1.2	19.934	2.823	125	48
1533/2Y	500	0.053	1.3	19.137	2.710	120	50
1533/3.5D	514	0.054	1.3	18.605	2.635	117	51
1533/3.25D	554	0.046	1.4	17.276	2.447	108	55
1533/1.75Y	571	0.040	1.4	16.745	2.371	105	57
1533/3D	600	0.040	1.5	15.947	2.258	100	60
1533/2.75D	655	0.033	1.6	14.618	2.070	92	65
1533/1.5Y	667	0.030	1.7	14.353	2.033	90	67
1533/2.5D	720	0.027	1.8	13.289	1.882	83	72
1533/2.25D	800	0.022	2.0	11.961	1.694	75	80
1533/1.25Y	800	0.021	2.0	11.961	1.694	75	80
1533/2D	900	0.018	2.3	10.632	1.506	67	90
1533/1Y	1,000	0.013	2.5	9.568	1.355	60	100
1533/1.75D	1,029	0.013	2.6	9.303	1.317	58	103
1533/1.5D	1,200	0.010	3.0	7.974	1.129	50	120
1533/0.75Y	1,333	0.007	3.3	7.176	1.016	45	133
1533/1.25D	1,440	0.007	3.6	6.645	0.941	42	144
1533/1D	1,800	0.004	4.5	5.316	0.753	33	180
1533/0.5Y	2,000	0.003	5.0	4.784	0.678	30	200
1533/0.75D	2,400	0.002	6.0	3.987	0.565	25	240
1533/0.5D	3,600	0.001	9.0	2.658	0.376	17	360
1533/0.25Y	4,000	0.001	10.0	2.392	0.339	15	400
1533/0.25D	7,200	0.000	18.0	1.329	0.188	8	720

1536

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.5	5.2	27.3 ozs.	3,250	3,500
mm: 38	132	773g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant		Max Volts	Max Amps
				mNm/A	inOz/A		
1536/6D	275	0.173	0.8	34.794	4.927	218	16
1536/5.75D	287	0.159	0.8	33.344	4.722	209	17
1536/5.5D	300	0.145	0.8	31.895	4.517	200	18

1536

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.5	5.2	27.3 ozs.	3,250	3,500
mm: 38	132	773g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A inOz/A	Max Volts	Max Amps
1536/3Y	306	0.130	0.8	31.315 4.435	196	18
1536/5.25D	314	0.132	0.9	30.445 4.311	191	18
1536/5D	330	0.120	0.9	28.995 4.106	182	19
1536/2.75Y	333	0.109	0.9	28.705 4.065	180	19
1536/4.75D	347	0.108	0.9	27.545 3.901	173	20
1536/2.5Y	367	0.090	1.0	26.096 3.695	164	21
1536/4.5D	367	0.097	1.0	26.096 3.695	164	21
1536/4.25D	388	0.087	1.1	24.646 3.490	155	23
1536/2.25Y	407	0.073	1.1	23.486 3.326	147	24
1536/4D	413	0.077	1.1	23.196 3.285	145	24
1536/3.75D	440	0.067	1.2	21.746 3.080	136	26
1536/2Y	458	0.058	1.3	20.877 2.956	131	27
1536/3.5D	471	0.059	1.3	20.297 2.874	127	28
1536/3.25D	508	0.051	1.4	18.847 2.669	118	30
1536/1.75Y	524	0.044	1.4	18.267 2.587	115	31
1536/3D	550	0.043	1.5	17.397 2.464	109	32
1536/2.75D	600	0.036	1.6	15.947 2.258	100	35
1536/1.5Y	611	0.032	1.7	15.657 2.217	98	36
1536/2.5D	660	0.030	1.8	14.498 2.053	91	39
1536/1.25Y	733	0.023	2.0	13.048 1.848	82	43
1536/2.25D	733	0.024	2.0	13.048 1.848	82	43
1536/2D	825	0.019	2.3	11.598 1.642	73	48
1536/1Y	917	0.014	2.5	10.438 1.478	65	53
1536/1.75D	943	0.015	2.6	10.148 1.437	64	55
1536/1.5D	1,100	0.011	3.0	8.699 1.232	55	64
1536/0.75Y	1,222	0.008	3.3	7.829 1.109	49	71
1536/1.25D	1,320	0.007	3.6	7.249 1.027	45	77
1536/1D	1,650	0.005	4.5	5.799 0.821	36	96
1536/0.5Y	1,833	0.004	5.0	5.219 0.739	33	107
1536/0.75D	2,200	0.003	6.0	4.349 0.616	27	128
1536/0.5D	3,300	0.001	9.0	2.900 0.411	18	193
1536/0.25Y	3,667	0.001	10.0	2.610 0.370	16	214
1536/0.25D	6,600	0.000	18.0	1.450 0.205	9	385

1539

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.5	5.2	27.3 ozs.	3,500	7,000
mm: 38	132	773g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant		Max Volts	Max Amps
				mNm/A	inOz/A		
1539/6D	254	0.187	0.8	37.694	5.338	236	30
1539/5.75D	265	0.172	0.8	36.123	5.115	227	31
1539/5.5D	277	0.157	0.8	34.553	4.893	217	32
1539/3Y	282	0.140	0.8	33.924	4.804	213	33
1539/5.25D	290	0.143	0.9	32.982	4.671	207	34
1539/5D	305	0.130	0.9	31.411	4.448	197	36
1539/2.75Y	308	0.118	0.9	31.097	4.404	195	36
1539/4.75D	321	0.117	0.9	29.841	4.226	187	37
1539/2.5Y	338	0.098	1.0	28.270	4.003	177	39
1539/4.5D	338	0.105	1.0	28.270	4.003	177	39
1539/4.25D	358	0.094	1.1	26.700	3.781	167	42
1539/2.25Y	376	0.079	1.1	25.443	3.603	160	44
1539/4D	381	0.083	1.1	25.129	3.559	158	44
1539/3.75D	406	0.073	1.2	23.559	3.336	148	47
1539/2Y	423	0.062	1.3	22.616	3.203	142	49
1539/3.5D	435	0.064	1.3	21.988	3.114	138	51
1539/3.25D	469	0.055	1.4	20.417	2.891	128	55
1539/1.75Y	484	0.048	1.4	19.789	2.802	124	56
1539/3D	508	0.047	1.5	18.847	2.669	118	59
1539/2.75D	554	0.039	1.6	17.276	2.447	108	65
1539/1.5Y	564	0.035	1.7	16.962	2.402	106	66
1539/2.5D	609	0.032	1.8	15.706	2.224	98	71
1539/1.25Y	677	0.024	2.0	14.135	2.002	89	79
1539/2.25D	677	0.026	2.0	14.135	2.002	89	79
1539/2D	762	0.021	2.3	12.565	1.779	79	89
1539/1Y	846	0.016	2.5	11.308	1.601	71	99
1539/1.75D	870	0.016	2.6	10.994	1.557	69	102
1539/1.5D	1,015	0.012	3.0	9.423	1.334	59	118
1539/0.75Y	1,128	0.009	3.3	8.481	1.201	53	132
1539/1.25D	1,218	0.008	3.6	7.853	1.112	49	142
1539/1D	1,523	0.005	4.5	6.282	0.890	39	178
1539/0.5Y	1,692	0.004	5.0	5.654	0.801	35	197
1539/0.75D	2,031	0.003	6.0	4.712	0.667	30	237
1539/0.5D	3,046	0.001	9.0	3.141	0.445	20	355
1539/0.25Y	3,385	0.001	10.0	2.827	0.400	18	395

1539

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	1.5	5.2	27.3 ozs.	3,500	7,000
mm:	38	132	773g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant		Max Volts	Max Amps
				mNm/A	inOz/A		
1539/0.25D	6,092	0.000	18.0	1.571	0.222	10	711

NEUTRONICS ENTERPRISES INC.
4631 Viewridge Ave Unit B
San Diego, CA 92123

email: info@neutronics.com
phone: 858-674-2250

<http://www.neumotors.com>

DOMESTIC CONTENT / COUNTRY OF ORIGIN

Motors may be assembled with varying degrees of domestic (USA) content. Please contact to discuss content requirements, solutions, and resulting pricing variances, if any. Baseline motors are assembled and or tested in the US or Mexico from components sourced globally, including China.

QUALITY CONTROL

Our factory is ISO 9001 certified. Quality documentation available on a custom order basis.

POWER RATINGS (Watts):

Continuous rating is the power the motor can deliver while maintaining the external housing temperatures below 100C.

MAX power rating is the power the motor can deliver beginning with motor at a temp of 20C until it reaches it's limit temperature of 100C. The exact maximum power output of a motor is dependent on a number of variables including air flow, ambient air temperature, contact cooling, etc. 100C rating is measured on the outside of the case, which allows for higher internal temperatures and a small measure of overhead.

MAX VOLTAGE

Limited by kv (RPMs per volt) times the applied voltage. Max voltage must be kept below the voltage which will spin the motor over max rpm for the motor series.

MAX AMPERAGE

See power ratings above.

MTBF RATINGS:

When used within the constraints described above, BLDC motors' primary "wear" item(s) are the bearings supporting the shaft. Bearing life is inversely affected by speed, temperature, radial and axial loads. While an MTBF figure can be generated, it would be rendered invalid by excursions beyond prescribed temperatures or load limits – such as prop strikes or side loads. MTBF must be determined on a case by case basis, and even then it would be subject to numerous exceptions.

COMPONENT SPECIFICATIONS

Winding temperature: 180C
Magnet grade: 180C UH grade
Bearings: Japanese SPB bearings

Specifications subject to change without notice.

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