



Stator lengths available:

Model	Length (in)	mm	Continuous Watts	Base Price
1506	1.8	46mm	500	241.00
1509	2.1	53mm	750	274.00
1512	2.4	61mm	1,000	285.00
1515	2.7	69mm	1,250	325.00
1518	3.3	84mm	1,500	351.00
1521	3.3	84mm	1,750	362.00
1524	4.0	102mm	2,000	373.00
1527	4.0	102mm	2,250	406.00
1530	4.3	108mm	2,750	428.00
1533	5.2	132mm	3,000	493.00
1536	5.2	132mm	3,250	504.00
1539	5.2	132mm	3,500	515.00

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 mNm/A	inOz/A	Max Volts	Max Amps	Stock Status
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	
1506/2.5Y	2,200	0.015	1.0	4.349	0.616	27	37	
1506/4.5D	2,200	0.016	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

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 mNm/A inOz/A	Max Volts	Max Amps	Stock Status
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 mNm/A inOz/A	Max Volts	Max Amps	Stock Status
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

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 mNm/A inOz/A	Max Volts	Max Amps	Stock Status
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 mNm/A inOz/A	Max Volts	Max Amps	Stock Status
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	
1512/2.5Y	1,100	0.030	1.0	8.699 1.232	55	37	
1512/4.5D	1,100	0.032	1.0	8.699 1.232	55	37	
1512/4.25D	1,165	0.029	1.1	8.215 1.163	52	39	

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	Stock Status
				mNm/A	inOz/A			
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	
1512/1.25Y	2,200	0.008	2.0	4.349	0.616	27	73	
1512/2.25D	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	Stock Status
				mNm/A	inOz/A			
1515/6D	660	0.072	0.8	14.498	2.053	91	22	

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 mNm/A	Constant inOz/A	Max Volts	Max Amps	Stock Status
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

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 mNm/A inOz/A	Max Volts	Max Amps	Stock Status
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 mNm/A inOz/A	Max Volts	Max Amps	Stock Status
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

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 mNm/A inOz/A	Max Volts	Max Amps	Stock Status
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 mNm/A inOz/A	Max Volts	Max Amps	Stock Status
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	
1521/2.5Y	629	0.053	1.0	15.222 2.156	95	37	
1521/4.5D	629	0.057	1.0	15.222 2.156	95	37	

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 mNm/A	inOz/A	Max Volts	Max Amps	Stock Status
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	
1521/2.25D	1,257	0.014	2.0	7.611	1.078	48	73	
1521/1.25Y	1,257	0.013	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	Constant inOz/A	Max Volts	Max Amps	Stock Status
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	
1524/2.25D	1,100	0.016	2.0	8.699	1.232	55	73	
1524/1.25Y	1,100	0.015	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

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	Stock Status
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	
1524/0.25D	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	Stock Status
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	
1527/2.5Y	489	0.068	1.0	19.572 2.772	123	37	
1527/4.5D	489	0.073	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

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	Stock Status
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	
1527/1.25Y	978	0.017	2.0	9.786 1.386	61	73	
1527/2.25D	978	0.018	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	
1527/1.5D	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 mNm/A inOz/A	Max Volts	Max Amps	Stock Status
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

Diam. Length Weight Max Cont. Max Peak
 Watts 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 mNm/A	inOz/A	Max Volts	Max Amps	Stock Status
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	
1530/2.75D	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 mNm/A	inOz/A	Max Volts	Max Amps	Stock Status
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	
1533/2.25Y	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	
1533/1.25Y	800	0.021	2.0	11.961	1.694	75	80	
1533/2.25D	800	0.022	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

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 mNm/A inOz/A	Max Volts	Max Amps	Stock Status
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 mNm/A inOz/A	Max Volts	Max Amps	Stock Status
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	
1536/3Y	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

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	Stock Status
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 mNm/A	inOz/A	Max Volts	Max Amps	Stock Status
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

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

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

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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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