

Dong Yang Servo Power Model Co., Ltd

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Brushless Motor datasheet

Brushless Motor (Outrunner) series

Series No.	Model No.	Rpm/V	Weight	Motor Dimensions	Shaft Size	Battery	Opernating Current	Peak.Amps
BMA2820	BMA2820-6	1000 KV	145g	Φ35mm*47mm	Φ4.0mm	3-5LiPo	2A	15-25A
BMA3520	BMA3520-6	800 KV	200g	Φ42mm*47mm	Φ5.0mm	3-5LiPo	2.1A	18-40 A
BMA5345	BMA5345-8	205 K/V	726g	Φ63mm*76mm	Φ8.0mm	10-12LiPo	1.2A	45- 60A
BMA2204	BMA2204-14	1400KV	19g	Φ27.6mm*11.5mm	Φ3.0mm	2-3 Lipo	0.3A	2-6A
BMA2826	BMA2826-4	1100	175g	Φ35mm*54mm	Φ5.0mm		3-5LiPo	25-37A
	BMA2826-5	930	175g	Φ35mm*54mm	Φ5.0mm	3-5LiPo	25-37A	2.1A
	BMA2826-6	730	175g	Φ35mm*54mm	Φ5.0mm	3-5LiPo	25-37A	1.5 A
BMA2208	BMA2208-8	2600KV	36g	Φ27.5mm*26mm	Φ3.0mm	2-3 Lipo	1.3 A	8-15A
	BMA2208-12	1800KV	36g	Φ27.5mm*26mm	Φ3.0mm	2-3 Lipo	0.8 A	6-10A
	BMA2208-14	1450 KV	36g	Φ27.5mm*26mm	Φ3.0mm	2-3 Lipo	0.6 A	5-9A
	BMA2208-17	1100 KV	36g	Φ27.5mm*26mm	Φ3.0mm	2-3 Lipo	0.4 A	4-7A
BMA2212	BMA2212-6	2200KV	47g	Φ27.5mm*30mm	Φ3.0mm	2-3 Lipo	1.4 A	14-22 A
	BMA2212-10	1400 KV	47g	Φ27.5mm*30mm	Φ3.0mm	2-3 Lipo	0.7 A	6 - 12 A
	BMA2212-13	1000 KV	47g	Φ27.5mm*30mm	Φ3.0mm	2-3 Lipo	0.5 A	4 - 10 A
	BMA2212-15	930KV	47g	Φ27.5mm*30mm	Φ3.0mm	2-3 Lipo	0.4 A	4 - 10 A
BMA2217	BMA2217K-6	1500KV	70g	Φ27.5mm*30mm	Φ4.0mm	2-3 Lipo	1.6A	8-22A
	BMA2217K-7	1250KV	70g	Φ27.5mm*30mm	Φ4.0mm	2-3 Lipo	1.3 A	5 -18 A
	BMA2217K-8	1080KV	70g	Φ27.5mm*30mm	Φ4.0mm	2-3 Lipo	1.0 A	5 -16 A
	BMA2217K-9	950KV	70g	Φ27.5mm*30mm	Φ4.0mm	2-3 Lipo	0.9A	5 - 15 A
BMA2814	BMA2814-6	1400 KV	100g	Φ35mm*36mm	Φ4.0mm	2-3 Lipo	2.1 A	18-30A
	BMA2814-8	1100 KV	100g	Φ35mm*36mm	Φ4.0mm	3-4 Lipo	1.8 A	15-25A
BMA4120	BMA4120-6	710 KV	309g	Φ50mm*55mm	Φ6.0mm	4-6 Lipo	2.6 A	26-45 A
	BMA4120-7	610 KV	309g	Φ50mm*55mm	Φ6.0mm	4-6 Lipo	2.0 A	20-40 A
BMA4130	BMA4130-6	510K/V	400g	Φ50mm*65mm	Φ6.0mm	4-6 Lipo	2.4 A	25-50 A
	BMA4130-8	380 K/V	400g	Φ50mm*65mm	Φ6.0mm	5-8 Lipo	1.5 A	18-40 A
BMA5530	BMA5530-9	260 KV	596g	Φ63mm*66mm	Φ8.0mm	10 Lipo	1.2 A	35-55A
	BMA5530-11	225 KV	596g	Φ63mm*66mm	Φ8.0mm	10 Lipo	1.2 A	33-50A
BMA7035	BMA7035-8	190 KV	1225g	Φ80mm*90mm	Φ10.0mm	10-12LiPo	2.2A	70 -120A
	BMA7035-9	176 KV	1680g	Φ80mm*90mm	Φ10.0mm	10-12LiPo	2.0A	60-110 A
	BMA7050-6	176KV	1680g	Φ80mm*105mm	Φ10.0mm	12-15LiPo	2.8A	80 -120A
BMA20	BMA20-34S	1500	29g	Φ28mm*22mm	Φ3.17mm*12mm	2LiPo	2-6A	8A
	BMA20-50S	1080	29g	Φ28mm*22mm	Φ3.17mm*12mm	3LiPo	2-6A	8A
	BMA20-26M	1130	43g	Φ28mm*28mm	Φ3.17mm*12mm	3LiPo	4-12A	15A
	BMA20-28M	1050	43g	Φ28mm*28mm	Φ3.17mm*12mm	3LiPo	4-12A	15A
	BMA20-20L	1050	57g	Φ28mm*32mm	Φ3.17mm*12mm	3LiPo	4-15A	19A

	BMA20-22L	924	57g	Φ28mm*32mm	Φ3.17mm*12mm	3LiPo	4-15A	17A
BMA22	BMA22-10S	1200	49g	Φ28mm*29mm	Φ3mm*12mm	3LiPo	4-13A	16A
	BMA22-15M	1050	67g	Φ28mm*34mm	Φ3mm*12mm	3LiPo	6-16A	20A
	BMA22-20L	1000	85g	Φ28mm*39mm	Φ3mm*12mm	3LiPo	8-21A	25A
BMA36	BMA36-22S	1440	79g	Φ37.4mm*30mm	Φ5.0mm*20mm	2-3LiPo	20-16A	32-28A
	BMA36-28S	1140	79g	Φ37.4mm*30mm	Φ5.0mm*20mm	3LiPo	15A	25A
	BMA36-12M	1370	116g	Φ37.4mm*36mm	Φ5.0mm*20mm	3LiPo	25A	35A
	BMA36-16M	1050	116g	Φ37.4mm*36mm	Φ5.0mm*20mm	3LiPo	22A	33A
	BMA36-10L	1185	152g	Φ37.4mm*42mm	Φ5.0mm*20mm	3-4LiPo	29-15A	40-27A
	BMA36-12L	1000	152g	Φ37.4mm*42mm	Φ5.0mm*20mm	3-4LiPo	25-15A	37-27A
	BMA36-08XL	1100	190g	Φ37.4mm*48mm	Φ5.0mm*20mm	3-4LiPo	35-25A	45-33A
	BMA36-10XL	900	190g	Φ37.4mm*48mm	Φ5.0mm*20mm	3-5LiPo	30-17A	42-25A
	BMA36-12XL	770	190g	Φ37.4mm*48mm	Φ5.0mm*20mm	3-5LiPo	25-14A	37-22A
	BMA63	BMA63-28S	249	460g	Φ63mm*56mm	Φ8.0mm*24mm	8-10LiPo	10-36A
BMA63-34S		206	460g	Φ63mm*56mm	Φ8.0mm*24mm	10LiPo	9-32A	43A
BMA63-18L		259	650g	Φ63mm*66mm	Φ8.0mm*24mm	10LiPo	25-60A	72A
BMA63-20L		235	650g	Φ63mm*66mm	Φ8.0mm*24mm	10LiPo	23-57A	69A
BMA63-24L		193	650g	Φ63mm*66mm	Φ8.0mm*24mm	10LiPo	15-38A	55A
BMA40H	BMA40H	3500	43g	Φ28mm*29mm	Φ3.17(2.3)*14mm	2-3 Lipo	8-16A	19A
BMA50H	BMA50H	3200	61g	Φ28mm*34mm	Φ3.17(2.3)*14mm	2-3 Lipo	8-16A	24A

Brushless Motor (Outrunner) series

Model No.	Rpm /V	Weight	Motor Dimensions	Shaft Size	Input Volt.	IO(A)	Ri(Ω)	Max.Amps
BM20 SERIES/COOL FIN								
BM20-30-S-FIN	7800	55g	Φ20mm*30mm	Φ2.0mm*10mm	6-18V	2.3	0.0314	18A
BM20-30-12S		50g						
BM20-30-13S	7100		Φ20mm*30mm	Φ2.0mm*10mm	6-18V	2.1	0.038	17
BM20-30-14S	6650					1.7	0.043	16
BM20-30-15S	6200					1.6	0.0492	15
BM20-30-16S	5800					1.4	0.0563	13
BM20-30-17S	5500					1.4	0.0635	13
BM20-30-18S	5200					1.3	0.071	12
BM20-30-19S	4900					1.3	0.0792	11
BM20-30-20S	4650					1.2	0.0877	11
BM20-30-22S	4200					0.9	0.1062	10
BM20-30-24S	3900					0.7	0.1263	9
BM20-30-26S	3600					0.7	0.148	8
BM20-30-28S	3300					0.5	0.1718	8
BM20-30-30S	3100					0.5	0.197	7
BM20-30-31S	3000					0.5	0.2108	7
BM20-40 SERIES								
BM20-40-L-FIN	4800	65g	Φ20mm*40mm	Φ2.3mm*10mm	6-18V	1.6	0.0389	20A
BM20-40-12L		60g						
BM20-40-13L	4500		Φ20mm*40mm	Φ2.3mm*10mm	6-18V	1.4	0.045	18
BM20-40-14L	4200					1.3	0.0527	17
BM20-40-15L	3800					1	0.06	16

BM20-40-16L	3600
BM20-40-17L	3400
BM20-40-18L	3200
BM20-40-19L	3000
BM20-40-20L	2900
BM20-40-22L	2600
BM20-40-24L	2400
BM20-40-26L	2200
BM20-40-28L	2000
BM20-40-30L	1900
BM20-40-31L	1800



0.8	0.0689	15
0.8	0.0777	14
0.7	0.0871	13
0.7	0.0968	12
0.7	0.1075	12
0.5	0.13	11
0.5	0.1585	10
0.4	0.1817	9
0.4	0.2101	8
0.3	0.2416	7
0.3	0.258	7

BM28 SERIES/COOL FIN

BM28-47-S-FIN	6500	163g	Φ28mm*48mm	Φ3.17mm*12mm	6-18V	2.8	0.0095	50A		
BM28-47-06S		135g	Φ27.6mm*47mm							
BM28-47-07S	5600	<p style="text-align: center;">BM28-47 SERIES</p> <p style="text-align: center;">Weight: 135g (163g-fin) Motor dimensions: Φ27.6mm*47mm Shaft size: Φ3.17mm*12mm</p>						3.7	0.0073	60
BM28-47-08S	4900							2.8	0.0095	50
BM28-47-09S	4300							2.4	0.0119	45
BM28-47-10S	3900							2.2	0.0148	40
BM28-47-11S	3600							1.9	0.0179	38
BM28-47-12S	3300							1.6	0.0213	35
BM28-47-13S	3000							1.4	0.0248	32
BM28-47-14S	2800							1.2	0.0288	30
BM28-47-15S	2600							1	0.033	27
BM28-47-16S	2400							1	0.0385	25
BM28-47-17S	2300							1	0.0426	25
BM28-47-18S	2100							0.9	0.0477	22
BM28-47-19S	2000							0.8	0.0532	20
BM28-47-20S	1900							0.8	0.0589	19
BM28-47-22S	1800							0.6	0.0715	18
BM28-47-24S	1600							0.5	0.0848	16
BM28-47-26S	1500							0.4	0.0996	15

BM28-47-S-FIN	4800	205g	Φ28mm*58mm	Φ3.17mm*12mm	6-18V	2.6	0.0086	60A		
BM28-57-06L		173g	Φ27.6mm*57mm							
BM28-57-07L	4100	<p style="text-align: center;">BM28-57 SERIES</p> <p style="text-align: center;">Weight: 173g (205g-fin) Motor dimensions: Φ27.6mm*57mm Shaft size: Φ3.17mm*12mm</p>						2.6	0.0086	60
BM28-57-08L	3600							2.3	0.0115	50
BM28-57-09L	3200							1.8	0.0145	45
BM28-57-10L	2900							1.5	0.0177	40
BM28-57-11L	2600							1.4	0.0216	38
BM28-57-12L	2400							1.2	0.0257	35
BM28-57-13L	2200							1.2	0.0301	30
BM28-57-14L	2000							0.8	0.0349	30
BM28-57-15L	1900							0.8	0.0399	27
BM28-57-16L	1800							0.8	0.0455	26
BM28-57-17L	1700							0.7	0.0514	24
BM28-57-18L	1600							0.7	0.0574	23
BM28-57-19L	1500							0.6	0.064	22
BM28-57-20L	1400							0.6	0.0711	20

BM28-57-L-FIN	4800	205g	Φ28mm*58mm	Φ3.17mm*12mm	6-18V	2.6	0.0086	60A		
BM28-57-06L		173g	Φ27.6mm*57mm							
BM28-57-07L	4100	<p style="text-align: center;">BM28-57 SERIES</p> <p style="text-align: center;">Weight: 173g (205g-fin) Motor dimensions: Φ27.6mm*57mm Shaft size: Φ3.17mm*12mm</p>						2.6	0.0086	60
BM28-57-08L	3600							2.3	0.0115	50
BM28-57-09L	3200							1.8	0.0145	45
BM28-57-10L	2900							1.5	0.0177	40
BM28-57-11L	2600							1.4	0.0216	38
BM28-57-12L	2400							1.2	0.0257	35
BM28-57-13L	2200							1.2	0.0301	30
BM28-57-14L	2000							0.8	0.0349	30
BM28-57-15L	1900							0.8	0.0399	27
BM28-57-16L	1800							0.8	0.0455	26
BM28-57-17L	1700							0.7	0.0514	24
BM28-57-18L	1600							0.7	0.0574	23
BM28-57-19L	1500							0.6	0.064	22
BM28-57-20L	1400							0.6	0.0711	20

BM28-57-L-FIN	4800	205g	Φ28mm*58mm	Φ3.17mm*12mm	6-18V	2.6	0.0086	60A		
BM28-57-06L		173g	Φ27.6mm*57mm							
BM28-57-07L	4100	<p style="text-align: center;">BM28-57 SERIES</p> <p style="text-align: center;">Weight: 173g (205g-fin) Motor dimensions: Φ27.6mm*57mm Shaft size: Φ3.17mm*12mm</p>						2.6	0.0086	60
BM28-57-08L	3600							2.3	0.0115	50
BM28-57-09L	3200							1.8	0.0145	45
BM28-57-10L	2900							1.5	0.0177	40
BM28-57-11L	2600							1.4	0.0216	38
BM28-57-12L	2400							1.2	0.0257	35
BM28-57-13L	2200							1.2	0.0301	30
BM28-57-14L	2000							0.8	0.0349	30
BM28-57-15L	1900							0.8	0.0399	27
BM28-57-16L	1800							0.8	0.0455	26
BM28-57-17L	1700							0.7	0.0514	24
BM28-57-18L	1600							0.7	0.0574	23
BM28-57-19L	1500							0.6	0.064	22
BM28-57-20L	1400							0.6	0.0711	20

BM28-57-L-FIN	4800	205g	Φ28mm*58mm	Φ3.17mm*12mm	6-18V	2.6	0.0086	60A		
BM28-57-06L		173g	Φ27.6mm*57mm							
BM28-57-07L	4100	<p style="text-align: center;">BM28-57 SERIES</p> <p style="text-align: center;">Weight: 173g (205g-fin) Motor dimensions: Φ27.6mm*57mm Shaft size: Φ3.17mm*12mm</p>						2.6	0.0086	60
BM28-57-08L	3600							2.3	0.0115	50
BM28-57-09L	3200							1.8	0.0145	45
BM28-57-10L	2900							1.5	0.0177	40
BM28-57-11L	2600							1.4	0.0216	38
BM28-57-12L	2400							1.2	0.0257	35
BM28-57-13L	2200							1.2	0.0301	30
BM28-57-14L	2000							0.8	0.0349	30
BM28-57-15L	1900							0.8	0.0399	27
BM28-57-16L	1800							0.8	0.0455	26
BM28-57-17L	1700							0.7	0.0514	24
BM28-57-18L	1600							0.7	0.0574	23
BM28-57-19L	1500							0.6	0.064	22
BM28-57-20L	1400							0.6	0.0711	20

BM28-57-22L	1300					0.5	0.0859	19
BM28-57-24L	1200					0.5	0.1024	16
BM28-57-26L	1100					0.4	0.1202	16

BM28-67-XL-FIN	3800	249g	$\Phi 28\text{mm} \times 68\text{mm}$	$\Phi 3.17\text{mm} \times 12\text{mm}$	6-18V	2.3	0.0125	50A
BM28-67-06XL		210g	$\Phi 27.6\text{mm} \times 67\text{mm}$					
BM28-67-07XL	3300	<p style="text-align: center;">BM28-67 SERIES</p>  <p style="text-align: center;">Weight: 210g (249g-fin) Motor dimensions: $\Phi 27.6\text{mm} \times 67\text{mm}$ Shaft size: $\Phi 3.17\text{mm} \times 12\text{mm}$</p>				3.3	0.0096	60
BM28-67-08XL	2900					2.3	0.0125	50
BM28-67-09XL	2600					2	0.0159	47
BM28-67-10XL	2300					1.8	0.0194	40
BM28-67-11XL	2100					1.5	0.0236	40
BM28-67-12XL	1900					1.5	0.0282	35
BM28-67-13XL	1800					1.2	0.0328	33
BM28-67-14XL	1650					1	0.0382	30
BM28-67-15XL	1550					0.9	0.0439	27
BM28-67-16XL	1450					0.8	0.0497	25
BM28-67-17XL	1350					0.7	0.0563	24
BM28-67-18XL	1300					0.7	0.0631	22
BM28-67-19XL	1200					0.6	0.0703	20
BM28-67-20XL	1150					0.6	0.0779	20
BM28-67-22XL	1050					0.5	0.0942	19
BM28-67-24XL	950					0.5	0.112	18
BM28-67-26XL	900					0.4	0.1315	17

BM28-35-24	3500	95g	$\Phi 27.6\text{mm} \times 35\text{mm}$	$\Phi 3.17\text{mm} \times 12\text{mm}$	6-18V	1.9	0.0658	25
BM28-35-28	3000					1.4	0.0812	21
BM28-35-32	2600					1	0.0991	18

BM36 SERIES/COOL FIN

BM36-50-S-FIN	5900	252g	$\Phi 35.8\text{mm} \times 51\text{mm}$	$\Phi 5.0\text{mm} \times 16\text{mm}$	6-24V	6.9	0.0034	108
BM36-50-06S		220g	$\Phi 35.8\text{mm} \times 50\text{mm}$					
BM36-50-07S	5000	<p style="text-align: center;">BM36-50 SERIES</p>  <p style="text-align: center;">Weight: 220g (252g-fin) Motor dimensions: $\Phi 35.8\text{mm} \times 50\text{mm}$ Shaft size: $\Phi 5.0\text{mm} \times 16\text{mm}$</p>				6.1	0.0045	97
BM36-50-08S	4400					5.6	0.0061	80A
BM36-50-09S	3900					3.7	0.0078	70
BM36-50-10S	3500					3.6	0.0095	65
BM36-50-11S	3200					2.4	0.0115	60
BM36-50-12S	2900					2.2	0.0136	55
BM36-50-13S	2700					2	0.0161	50
BM36-50-14S	2500					1.8	0.0185	45
BM36-50-15S	2300					1.6	0.0214	43
BM36-50-16S	2200					1.6	0.0243	41
BM36-50-17S	2000					1.4	0.0272	39
BM36-50-18S	1900					1.3	0.0301	35
BM36-50-19S	1800					1.2	0.0342	34
BM36-50-20S	1700					1.1	0.0377	33

BM36-60-L-FIN	4000	315g	$\Phi 35.8\text{mm} \times 61\text{mm}$	$\Phi 5.0\text{mm} \times 16\text{mm}$	6-24V	6.9	0.0034	108
BM36-60-06L		260g	$\Phi 35.8\text{mm} \times 60\text{mm}$					
BM36-60-07L	3500					5.2	0.0058	89

