



# SUNON

## DC Brushless **FAN**

Traditional  
Motor Series





# SUNON

## Traditional Motor Series

Voltage : 5 ~ 48V

| Size(mm) | Model        | ★   | Volt.   | WATTS | RPM  | CFM  | Inch H <sub>2</sub> O | dBA  |
|----------|--------------|-----|---------|-------|------|------|-----------------------|------|
| 40x40x10 | KD0504PFS1   | OC  | ⊗ 5VDC  | 1.0   | 7000 | 7.0  | 0.16                  | 27   |
|          | KD0504PFS2   | OC  | ⊗ 5VDC  | 0.9   | 5500 | 4.9  | 0.11                  | 25   |
|          | KD0504PFS3   | OC  | ⊗ 5VDC  | 0.5   | 4200 | 4.5  | 0.09                  | 22.8 |
|          | KD0504PFB1   | OC  | ⊗ 5VDC  | 1.0   | 7500 | 7.5  | 0.17                  | 28   |
|          | KD0504PFB2   | OC  | ⊗ 5VDC  | 0.9   | 6500 | 6.5  | 0.15                  | 26   |
|          | KD0504PFB3   | OC  | ⊗ 5VDC  | 0.5   | 5200 | 4.6  | 0.105                 | 23.5 |
|          | KD1204PFS1   | H   | ⊗ 12VDC | 1.4   | 7400 | 7.3  | 0.17                  | 30.3 |
|          | KD1204PFS2   | H   | ⊗ 12VDC | 1.1   | 5500 | 4.9  | 0.11                  | 25   |
|          | KD1204PFS3   | H   | ⊗ 12VDC | 0.7   | 4200 | 4.2  | 0.08                  | 22   |
|          | KD1204PFB1   | H   | ⊗ 12VDC | 1.4   | 8400 | 8.3  | 0.19                  | 34.4 |
|          | KD1204PFB2   | H   | ⊗ 12VDC | 1.1   | 6600 | 6.5  | 0.15                  | 27   |
|          | KD1204PFB3   | H   | ⊗ 12VDC | 0.6   | 5200 | 4.7  | 0.10                  | 24   |
|          | KD2404PFB2-8 |     | ⊗ 24VDC | 0.7   | 6300 | 6.0  | 0.13                  | 24   |
| 40x40x20 | KD0504PKS2   |     | ⊗ 5 VDC | 1.0   | 6000 | 6.5  | 0.12                  | 25.5 |
|          | KD0504PKS3   |     | ⊗ 5 VDC | 0.7   | 4500 | 5.2  | 0.08                  | 22.8 |
|          | KD0504PKB2   |     | ⊗ 5 VDC | 1.0   | 6500 | 7.0  | 0.16                  | 29   |
|          | KD0504PKB3   |     | ⊗ 5 VDC | 0.7   | 5300 | 6.2  | 0.12                  | 24   |
|          | KD1204PKS1   | H   | ⊗ 12VDC | 1.2   | 7200 | 8.9  | 0.21                  | 25.5 |
|          | KD1204PKS2   | H   | ⊗ 12VDC | 0.8   | 6200 | 7.7  | 0.16                  | 21   |
|          | KD1204PKS3   | H   | ⊗ 12VDC | 0.7   | 5200 | 6.3  | 0.11                  | 18   |
|          | KD1204PKB1   | H   | ⊗ 12VDC | 1.2   | 7400 | 9.1  | 0.22                  | 27   |
|          | KD1204PKB2   | H   | ⊗ 12VDC | 0.8   | 6500 | 8.0  | 0.17                  | 22.5 |
|          | KD1204PKB3   | H   | ⊗ 12VDC | 0.6   | 5400 | 6.5  | 0.12                  | 19   |
|          | KD2404PKS2   |     | ⊗ 24VDC | 1.2   | 6000 | 6.5  | 0.12                  | 25.5 |
|          | KD2404PKS3   |     | ⊗ 24VDC | 0.8   | 4500 | 5.2  | 0.08                  | 22.8 |
|          | KD2404PKB2   |     | ⊗ 24VDC | 1.0   | 6500 | 7.0  | 0.16                  | 29   |
|          | KD2404PKB3   | (2) | ⊗ 24VDC | 0.7   | 5000 | 6.0  | 0.11                  | 24   |
|          | KD2404PKB2   | (2) | ⊗ 24VDC | 1.0   | 6800 | 7.5  | 0.165                 | 30   |
|          | KD2404PKB3   | (2) | ⊗ 24VDC | 0.7   | 4700 | 5.6  | 0.10                  | 22.5 |
| 45x45x10 | KD0545PFS1   | OC  | ⊗ 5VDC  | 1.0   | 6000 | 8.0  | 0.14                  | 28.5 |
|          | KD0545PFS2   | OC  | ⊗ 5VDC  | 0.9   | 5000 | 6.8  | 0.10                  | 27   |
|          | KD0545PFS3   | OC  | ⊗ 5VDC  | 0.6   | 4000 | 5.5  | 0.07                  | 23   |
|          | KD0545PFB1   | OC  | ⊗ 5VDC  | 1.0   | 7000 | 9.5  | 0.16                  | 32   |
|          | KD0545PFB2   | OC  | ⊗ 5VDC  | 0.9   | 5900 | 8.0  | 0.13                  | 29   |
|          | KD0545PFB3   | OC  | ⊗ 5VDC  | 0.6   | 4500 | 6.2  | 0.10                  | 26   |
|          | KD1245PFS1   | H   | ⊗ 12VDC | 1.4   | 6600 | 8.8  | 0.15                  | 31.4 |
|          | KD1245PFS2   | H   | ⊗ 12VDC | 1.2   | 5300 | 7.1  | 0.12                  | 25.2 |
|          | KD1245PFS3   | H   | ⊗ 12VDC | 0.8   | 3900 | 5.2  | 0.09                  | 22   |
|          | KD1245PFB1   | H   | ⊗ 12VDC | 1.4   | 7100 | 9.5  | 0.16                  | 33.8 |
|          | KD1245PFB2   | H   | ⊗ 12VDC | 1.1   | 5900 | 8.0  | 0.13                  | 29   |
|          | KD1245PFB3   | H   | ⊗ 12VDC | 0.7   | 4400 | 6.1  | 0.10                  | 23   |
| 50x50x10 | KD0505PFS1   | OC  | ⊗ 5VDC  | 1.1   | 5100 | 9.6  | 0.105                 | 30.5 |
|          | KD0505PFS2   | OC  | ⊗ 5VDC  | 0.9   | 4300 | 8.0  | 0.09                  | 29   |
|          | KD0505PFS3   | OC  | ⊗ 5VDC  | 0.6   | 3500 | 7.0  | 0.065                 | 21   |
|          | KD0505PFB1   | OC  | ⊗ 5VDC  | 1.1   | 5400 | 10.2 | 0.11                  | 31.5 |
|          | KD0505PFB2   | OC  | ⊗ 5VDC  | 0.9   | 4700 | 9.2  | 0.10                  | 30   |
|          | KD0505PFB3   | OC  | ⊗ 5VDC  | 0.6   | 3800 | 7.2  | 0.07                  | 22   |
|          | KD1205PFS1   | H   | ⊗ 12VDC | 1.6   | 5600 | 10.6 | 0.11                  | 32.4 |
|          | KD1205PFS2   | H   | ⊗ 12VDC | 1.1   | 4500 | 8.5  | 0.09                  | 26   |
|          | KD1205PFS3   | H   | ⊗ 12VDC | 0.8   | 3700 | 7.0  | 0.07                  | 21.4 |
|          | KD1205PFB1   | H   | ⊗ 12VDC | 1.6   | 6000 | 11.4 | 0.12                  | 34.7 |
|          | KD1205PFB2   | H   | ⊗ 12VDC | 1.2   | 5000 | 9.5  | 0.10                  | 28.9 |
|          | KD1205PFB3   | H   | ⊗ 12VDC | 0.8   | 4200 | 8.0  | 0.08                  | 24.3 |
|          | KD1205PFS1   | H.G | ⊗ 12VDC | 1.4   | 6500 | 12.5 | 0.19                  | 35   |
|          | KD1205PFS2   | H.G | ⊗ 12VDC | 1.0   | 5500 | 10.6 | 0.15                  | 30   |
|          | KD1205PFS3   | H.G | ⊗ 12VDC | 0.7   | 4500 | 8.5  | 0.10                  | 25   |
|          | KD1205PFB1   | H.G | ⊗ 12VDC | 1.4   | 6500 | 12.5 | 0.19                  | 36   |
|          | KD1205PFB2   | H.G | ⊗ 12VDC | 1.0   | 5500 | 10.6 | 0.15                  | 31.5 |
|          | KD1205PFB3   | H.G | ⊗ 12VDC | 0.7   | 4500 | 8.5  | 0.10                  | 26   |
|          | KD2405PFS1-8 |     | ⊗ 24VDC | 1.0   | 5400 | 10.2 | 0.11                  | 31.5 |
|          | KD2405PFB1-8 |     | ⊗ 24VDC | 1.0   | 5100 | 9.0  | 0.10                  | 30   |

| Size(mm) | Model            | ★   | Volt.   | WATTS | RPM  | CFM  | Inch H <sub>2</sub> O | dBA  |
|----------|------------------|-----|---------|-------|------|------|-----------------------|------|
| 50x50x15 | KD1205PHS1       | H   | ⊗ 12VDC | 1.5   | 5800 | 17.0 | 0.23                  | 33   |
|          | KD1205PHS2       | H   | ⊗ 12VDC | 1.0   | 4700 | 13.0 | 0.17                  | 29   |
|          | KD1205PHS3       | H   | ⊗ 12VDC | 0.7   | 3700 | 10.2 | 0.12                  | 22   |
|          | KD1205PHB1       | H   | ⊗ 12VDC | 1.5   | 5800 | 17.0 | 0.23                  | 34   |
|          | KD1205PHB2       | H   | ⊗ 12VDC | 1.0   | 4700 | 13.0 | 0.17                  | 29.5 |
|          | KD1205PHB3       | H   | ⊗ 12VDC | 0.7   | 3700 | 10.2 | 0.12                  | 22.5 |
| 52x52x15 | KD0505PHS2       |     | ⊗ 5 VDC | 1.9   | 5000 | 12.4 | 0.14                  | 27   |
|          | KD0505PHS3       |     | ⊗ 5 VDC | 1.2   | 4000 | 7.6  | 0.12                  | 24   |
|          | KD0505PHB2       |     | ⊗ 5 VDC | 1.9   | 5300 | 12.7 | 0.16                  | 27.8 |
|          | KD0505PHB3       |     | ⊗ 5 VDC | 1.2   | 4300 | 8.5  | 0.14                  | 25.4 |
|          | KD1205PHS2       |     | ⊗ 12VDC | 1.7   | 5000 | 12.4 | 0.14                  | 27   |
|          | KD1205PHS3       |     | ⊗ 12VDC | 0.9   | 4000 | 7.6  | 0.12                  | 24   |
|          | KD1205PHB2       |     | ⊗ 12VDC | 1.7   | 5300 | 12.7 | 0.16                  | 27.8 |
|          | KD1205PHB3       |     | ⊗ 12VDC | 0.9   | 4300 | 8.5  | 0.14                  | 25.4 |
|          | KD2405PHS2       |     | ⊗ 24VDC | 1.9   | 5000 | 12.4 | 0.14                  | 27   |
|          | KD2405PHS3       |     | ⊗ 24VDC | 1.2   | 4000 | 7.6  | 0.12                  | 24   |
|          | KD2405PHB2       |     | ⊗ 24VDC | 1.9   | 5300 | 12.7 | 0.16                  | 27.8 |
|          | KD2405PHB3       |     | ⊗ 24VDC | 1.2   | 4300 | 8.5  | 0.14                  | 25.4 |
| 55x55x10 | KD1255PFS1       | H.G | ⊗ 12VDC | 1.4   | 5700 | 15.0 | 0.16                  | 36   |
|          | KD1255PFS2       | H.G | ⊗ 12VDC | 1.0   | 4700 | 13.0 | 0.12                  | 30   |
|          | KD1255PFS3       | H.G | ⊗ 12VDC | 0.7   | 4000 | 10.2 | 0.08                  | 26   |
|          | KD1255PFB1       | H.G | ⊗ 12VDC | 1.4   | 5700 | 15.0 | 0.16                  | 36.5 |
|          | KD1255PFB2       | H.G | ⊗ 12VDC | 1.0   | 4700 | 13.0 | 0.12                  | 30.5 |
|          | KD1255PFB3       | H.G | ⊗ 12VDC | 0.7   | 4000 | 10.2 | 0.08                  | 27   |
| 60x60x10 | KD1206PFS1       | H.G | ⊗ 12VDC | 1.4   | 5200 | 16.5 | 0.17                  | 35   |
|          | KD1206PFS2       | H.G | ⊗ 12VDC | 1.0   | 4300 | 14.0 | 0.12                  | 34.5 |
|          | KD1206PFS3       | H.G | ⊗ 12VDC | 0.8   | 3600 | 11.3 | 0.07                  | 28.5 |
|          | KD1206PFB1       | H.G | ⊗ 12VDC | 1.4   | 5200 | 16.5 | 0.17                  | 36   |
|          | KD1206PFB2       | H.G | ⊗ 12VDC | 1.0   | 4300 | 14.0 | 0.12                  | 35   |
|          | KD1206PFB3       | H.G | ⊗ 12VDC | 0.8   | 3600 | 11.3 | 0.07                  | 29   |
| 60x60x15 | KD0506PHS2       |     | ⊗ 5VDC  | 1.9   | 4000 | 17.8 | 0.135                 | 31   |
|          | KD0506PHS3       |     | ⊗ 5VDC  | 1.2   | 3300 | 14.8 | 0.11                  | 26   |
|          | KD0506PHB2       |     | ⊗ 5VDC  | 1.9   | 4200 | 18.5 | 0.15                  | 31.5 |
|          | KD0506PHB3       |     | ⊗ 5VDC  | 1.2   | 3500 | 15.2 | 0.13                  | 26.5 |
|          | KD1206PHS1       | H   | ⊗ 12VDC | 1.8   | 4300 | 21.0 | 0.18                  | 36   |
|          | KD1206PHS2       | H   | ⊗ 12VDC | 1.1   | 3800 | 18.0 | 0.14                  | 31   |
|          | KD1206PHS3       | H   | ⊗ 12VDC | 0.7   | 3000 | 15.0 | 0.12                  | 25   |
|          | KD1206PHB1       | H   | ⊗ 12VDC | 1.8   | 4300 | 21.0 | 0.18                  | 37.5 |
|          | KD1206PHB2       | H   | ⊗ 12VDC | 1.1   | 3800 | 18.0 | 0.14                  | 31.5 |
|          | KD1206PHB3       | H   | ⊗ 12VDC | 0.7   | 3000 | 15.0 | 0.12                  | 26   |
| 60x60x20 | KD1206PKS1       | H   | ⊗ 12VDC | 1.8   | 4300 | 22.0 | 0.17                  | 32   |
|          | KD1206PKS2       | H   | ⊗ 12VDC | 1.1   | 3600 | 18.5 | 0.14                  | 27.5 |
|          | KD1206PKS3       | H   | ⊗ 12VDC | 0.8   | 3200 | 15.0 | 0.10                  | 25   |
|          | KD1206PKB1       | H   | ⊗ 12VDC | 1.8   | 4300 | 22.0 | 0.17                  | 32.5 |
|          | KD1206PKB2       | H   | ⊗ 12VDC | 1.1   | 3600 | 18.5 | 0.14                  | 28   |
|          | KD1206PKB3       | H   | ⊗ 12VDC | 0.8   | 3200 | 15.0 | 0.10                  | 26   |
|          | KD1206PKB1 (2).H |     | ⊗ 12VDC | 1.8   | 4300 | 22   | 0.17                  | 32.5 |
|          | KD2406PKS2       |     | ⊗ 24VDC | 1.7   | 4200 | 16.5 | 0.13                  | 31   |
|          | KD2406PKB2       |     | ⊗ 24VDC | 1.7   | 4200 | 16.5 | 0.13                  | 31   |
|          | KD2406PKB3       |     | ⊗ 24VDC | 1.2   | 3500 | 16   | 0.13                  | 27   |

★ : Bearing System: ⊗ Sleeve Bearing / ⊖ One Ball Bearing / ⊕ Two Ball Bearing

\*Specifications subject to change without notice



| Size(mm) | Model         | ★     | Volt.   | WATTS | RPM  | CFM  | Inch<br>H <sub>2</sub> O | dBA  |
|----------|---------------|-------|---------|-------|------|------|--------------------------|------|
| 60x60x25 | KD0506PTS2    |       | ⊙ 5VDC  | 1.7   | 3800 | 17.6 | 0.15                     | 31   |
|          | KD0506PTS3    |       | ⊙ 5VDC  | 1.2   | 3300 | 15.9 | 0.10                     | 26.7 |
|          | KD0506PTB2    |       | ○ 5VDC  | 1.7   | 4000 | 18.0 | 0.16                     | 31.3 |
|          | KD0506PTB3    |       | ○ 5VDC  | 1.2   | 3600 | 16.2 | 0.11                     | 27   |
|          | KD1206PTS1    | H     | ⊙ 12VDC | 1.9   | 4300 | 22.5 | 0.20                     | 33.5 |
|          | KD1206PTS2    | H     | ⊙ 12VDC | 1.3   | 3700 | 18.0 | 0.15                     | 29   |
|          | KD1206PTS3    | H     | ⊙ 12VDC | 0.8   | 3100 | 16.0 | 0.10                     | 25   |
|          | KD1206PTB1    | H     | ○ 12VDC | 2.0   | 4300 | 22.5 | 0.20                     | 34   |
|          | KD1206PTB2    | H     | ○ 12VDC | 1.3   | 3700 | 18.0 | 0.15                     | 30   |
|          | KD1206PTB3    | H     | ○ 12VDC | 0.8   | 3100 | 16.0 | 0.10                     | 26   |
|          | KD2406PTS1    | V     | ⊙ 24VDC | 2.6   | 4300 | 22.5 | 0.20                     | 33.5 |
|          | KD2406PTS2    | V     | ⊙ 24VDC | 1.9   | 3700 | 18.0 | 0.15                     | 29   |
|          | KD2406PTS3    | V     | ⊙ 24VDC | 1.4   | 3100 | 16.0 | 0.10                     | 25   |
|          | KD2406PTB1    | V     | ○ 24VDC | 2.6   | 4300 | 23.5 | 0.22                     | 34   |
|          | KD2406PTB2    | V     | ○ 24VDC | 1.9   | 3800 | 19.0 | 0.16                     | 31   |
|          | KD2406PTB3    | V     | ○ 24VDC | 1.4   | 3100 | 16.8 | 0.11                     | 27   |
|          | KD2406PTB1    | (2).V | ⊙ 24VDC | 2.6   | 4500 | 23.5 | 0.22                     | 34   |
|          | KD2406PTB2    | (2).V | ⊙ 24VDC | 1.9   | 4000 | 19.0 | 0.16                     | 31   |
| 80x80x15 | KD1208PHS1    | H     | ⊙ 12VDC | 3.1   | 3200 | 34.0 | 0.16                     | 37.5 |
|          | KD1208PHS2    | H     | ⊙ 12VDC | 2.3   | 2800 | 30.0 | 0.12                     | 34   |
|          | KD1208PHS3    | H     | ⊙ 12VDC | 1.6   | 2400 | 25.0 | 0.10                     | 31.5 |
|          | KD1208PHB1    | H     | ○ 12VDC | 3.1   | 3300 | 35.0 | 0.17                     | 39.5 |
|          | KD1208PHB2    | H     | ○ 12VDC | 2.3   | 2900 | 31.0 | 0.13                     | 36   |
|          | KD1208PHB3    | H     | ○ 12VDC | 1.6   | 2500 | 25.5 | 0.10                     | 32   |
| 80x80x20 | KD1208PKS1    | H     | ⊙ 12VDC | 2.2   | 3000 | 37.0 | 0.17                     | 34.5 |
|          | KD1208PKS2    | H     | ⊙ 12VDC | 1.8   | 2700 | 33.2 | 0.15                     | 31.3 |
|          | KD1208PKS3    | H     | ⊙ 12VDC | 1.3   | 2300 | 28.3 | 0.11                     | 26.5 |
|          | KD1208PKB1    | (2).H | ⊙ 12VDC | 2.0   | 3200 | 38.5 | 0.18                     | 37.5 |
|          | KD1208PKB2    | (2).H | ⊙ 12VDC | 1.7   | 2900 | 37.0 | 0.17                     | 35   |
|          | KD1208PKB3    | (2).H | ⊙ 12VDC | 1.3   | 2600 | 31.0 | 0.14                     | 31.5 |
| 80x80x25 | KD1208PTS1    | H     | ⊙ 12VDC | 2.4   | 2850 | 37.5 | 0.17                     | 32.5 |
|          | KD1208PTS2    | H     | ⊙ 12VDC | 2.3   | 2700 | 36.5 | 0.16                     | 30   |
|          | KD1208PTS3    | H     | ⊙ 12VDC | 1.4   | 2300 | 31.0 | 0.12                     | 25   |
|          | KD1208PTS4    | H     | ⊙ 12VDC | 1.0   | 1500 | 21.0 | 0.06                     | 18   |
|          | KD1208PTB1    | (2).H | ⊙ 12VDC | 2.3   | 3000 | 39.5 | 0.18                     | 33   |
|          | KD1208PTB2    | (2).H | ⊙ 12VDC | 2.1   | 2900 | 39.0 | 0.17                     | 32   |
|          | KD1208PTB3    | (2).H | ⊙ 12VDC | 1.4   | 2500 | 33.1 | 0.13                     | 28   |
|          | KD2408PTS1-6A |       | ⊙ 24VDC | 2.6   | 3000 | 41.7 | 0.18                     | 34   |
|          | KD2408PTS2-6A |       | ⊙ 24VDC | 1.9   | 2650 | 34.4 | 0.16                     | 30   |
|          | KD2408PTS3-6A |       | ⊙ 24VDC | 1.5   | 2200 | 29.4 | 0.11                     | 24.5 |
|          | KD2408PTB1-6A |       | ⊙ 24VDC | 2.6   | 3200 | 42.5 | 0.23                     | 36.5 |
|          | KD2408PTB2-6A |       | ⊙ 24VDC | 1.9   | 2800 | 35.0 | 0.20                     | 32.5 |
|          | KD2408PTB3-6A |       | ⊙ 24VDC | 1.5   | 2500 | 30.0 | 0.14                     | 28.5 |
| 92x92x25 | KD1209PTS1    | H     | ⊙ 12VDC | 2.6   | 2500 | 45.5 | 0.14                     | 33   |
|          | KD1209PTS2    | H     | ⊙ 12VDC | 2.5   | 2400 | 44.0 | 0.14                     | 32   |
|          | KD1209PTS3    | H     | ⊙ 12VDC | 1.7   | 2100 | 39.0 | 0.11                     | 28   |
|          | KD1209PTB1    | (2).H | ⊙ 12VDC | 2.5   | 2700 | 49.0 | 0.17                     | 34.5 |
|          | KD1209PTB2    | (2).H | ⊙ 12VDC | 2.4   | 2600 | 48.5 | 0.16                     | 33   |
|          | KD1209PTB3    | (2).H | ⊙ 12VDC | 1.6   | 2300 | 41.0 | 0.12                     | 30   |
|          | KD2409PTS1-6A |       | ⊙ 24VDC | 3.4   | 2800 | 50.0 | 0.17                     | 35   |
|          | KD2409PTS2-6A |       | ⊙ 24VDC | 2.2   | 2500 | 44.0 | 0.15                     | 33   |
|          | KD2409PTS3-6A |       | ⊙ 24VDC | 1.7   | 2100 | 39.0 | 0.11                     | 27   |
|          | KD2409PTB1-6A |       | ⊙ 24VDC | 3.4   | 3000 | 51.0 | 0.20                     | 37   |
|          | KD2409PTB2-6A |       | ⊙ 24VDC | 2.2   | 2600 | 45.0 | 0.18                     | 34   |
|          | KD2409PTB3-6A |       | ⊙ 24VDC | 1.7   | 2300 | 40.0 | 0.13                     | 28   |

| Size(mm)   | Model         | ★ | Volt. | WATTS | RPM  | CFM   | Inch H <sub>2</sub> O | dBA  |
|------------|---------------|---|-------|-------|------|-------|-----------------------|------|
| 120x120x25 | KD1212PTS1-6A | ⊙ | 12VDC | 4.8   | 3000 | 88    | 0.27                  | 44   |
|            | KD1212PTS2-6A | ⊙ | 12VDC | 3.6   | 2700 | 78    | 0.21                  | 40   |
|            | KD1212PTS3-6A | ⊙ | 12VDC | 2.4   | 2300 | 67    | 0.16                  | 35   |
|            | KD1212PTB1-6A | ⊙ | 12VDC | 4.8   | 3100 | 90    | 0.28                  | 44.5 |
|            | KD1212PTB2-6A | ⊙ | 12VDC | 3.6   | 2800 | 80    | 0.22                  | 41   |
|            | KD1212PTB3-6A | ⊙ | 12VDC | 2.4   | 2400 | 69    | 0.17                  | 35.5 |
|            | KD2412PTS1-6A | ⊙ | 24VDC | 5.3   | 3000 | 88    | 0.27                  | 44   |
|            | KD2412PTS2-6A | ⊙ | 24VDC | 4.1   | 2700 | 78    | 0.21                  | 40   |
|            | KD2412PTS3-6A | ⊙ | 24VDC | 3.1   | 2300 | 67    | 0.16                  | 35   |
|            | KD2412PTB1-6A | ⊙ | 24VDC | 5.3   | 3100 | 90    | 0.28                  | 44.5 |
|            | KD2412PTB2-6A | ⊙ | 24VDC | 4.1   | 2800 | 80    | 0.22                  | 41   |
|            | KD2412PTB3-6A | ⊙ | 24VDC | 3.1   | 2400 | 69    | 0.17                  | 35.5 |
| 120x120x38 | KD1212PMSX-6A | ⊙ | 12VDC | 7.6   | 3100 | 119   | 0.32                  | 45   |
|            | KD1212PMS1-6A | ⊙ | 12VDC | 6.8   | 3000 | 107   | 0.30                  | 41   |
|            | KD1212PMS2-6A | ⊙ | 12VDC | 5.1   | 2700 | 97    | 0.24                  | 36   |
|            | KD1212PMS3-6A | ⊙ | 12VDC | 3.2   | 2300 | 83    | 0.18                  | 34   |
|            | KD1212PMBX-6A | ⊙ | 12VDC | 7.6   | 3150 | 120   | 0.34                  | 46.5 |
|            | KD1212PMB1-6A | ⊙ | 12VDC | 6.8   | 3100 | 108   | 0.31                  | 42   |
|            | KD1212PMB2-6A | ⊙ | 12VDC | 5.1   | 2800 | 98    | 0.25                  | 36.5 |
|            | KD1212PMB3-6A | ⊙ | 12VDC | 3.2   | 2400 | 84    | 0.19                  | 35   |
|            | KD2412PMSX-6A | ⊙ | 24VDC | 7.2   | 3100 | 119   | 0.32                  | 45   |
|            | KD2412PMS1-6A | ⊙ | 24VDC | 6.7   | 3000 | 107   | 0.30                  | 41   |
|            | KD2412PMS2-6A | ⊙ | 24VDC | 5.5   | 2700 | 97    | 0.24                  | 36   |
|            | KD2412PMS3-6A | ⊙ | 24VDC | 4.0   | 2300 | 83    | 0.18                  | 34   |
|            | KD2412PMBX-6A | ⊙ | 24VDC | 7.2   | 3150 | 120   | 0.34                  | 46.5 |
|            | KD2412PMB1-6A | ⊙ | 24VDC | 6.7   | 3100 | 108   | 0.31                  | 42   |
|            | KD2412PMB2-6A | ⊙ | 24VDC | 5.5   | 2800 | 98    | 0.25                  | 36.5 |
|            | KD2412PMB3-6A | ⊙ | 24VDC | 4.0   | 2400 | 84    | 0.19                  | 35   |
|            | KD4812PMS1-6A | ⊙ | 48VDC | 9.1   | 2900 | 132.5 | 0.29                  | 46   |
|            | KD4812PMS2-6A | ⊙ | 48VDC | 7.7   | 2700 | 124   | 0.26                  | 43.5 |
|            | KD4812PMS3-6A | ⊙ | 48VDC | 4.8   | 2300 | 106.5 | 0.19                  | 40   |
|            | KD4812PMB1-6A | ⊙ | 48VDC | 9.1   | 3000 | 136   | 0.30                  | 47   |
|            | KD4812PMB2-6A | ⊙ | 48VDC | 7.7   | 2800 | 127   | 0.28                  | 44   |
|            | KD4812PMB3-6A | ⊙ | 48VDC | 4.8   | 2400 | 107   | 0.20                  | 41   |

★ : Bearing System: ⊙ Sleeve Bearing / ○ One Ball Bearing / ⊕ Two Ball Bearing  
\*Specifications subject to change without notice

## U.S. Patent Numbers

|           |           |           |           |
|-----------|-----------|-----------|-----------|
| 4,787,863 | 4,987,331 | 5,093,599 | 5,245,236 |
| 5,492,458 | 5,522,700 | 5,584,339 | 5,582,506 |
| 5,690,468 | 5,699,854 | 5,734,553 | 5,740,017 |
| 398,393   | 398,392   | 399,946   | 398,977   |
| 396,276   | 398,393   | 398,392   | 398,977   |
| 398,978   | 400,665   | 401,686   | 5,873,406 |
| 5,967,763 | 5,959,377 | 5,988,995 | 5,997,183 |
| 6,021,043 | 6,050,785 | 6,114,785 | 6,097,120 |
| 6,109,890 | 5,297,929 | 5,666,011 | 396,276   |
| 398,978   | 399,946   | 408,514   | 418,216   |
| 6,109,892 |           |           |           |