

ADDA DC Brushless Fans



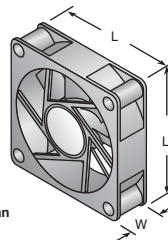
DC BRUSHLESS FANS

Specifications:

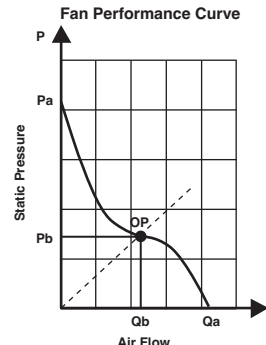
- Frame housing and impeller; black PBT per UL94V-0, glass-filled
- Operating temperature: -10°C ~+75°C
- Life expectancy: 50,000 hours min. @ 25°C, relative humidity by 65%
- Lead wire termination
- Storage temperature: -40° to 75°C
- Motor protection and polarity protection
- AD0312HB-G50(S) - one ball, one sleeve
- AD0412HB-C56 - third wire speed sensor (tachometer)
- AD0605LB-A72GL - third wire alarm

Features:

- All products are tested to stringent 6-Sigma quality in addition to statistical process control
- ADDA also performs periodic audits on each product to ensure the best quality control



The FPC (Fan Performance Curve) is measured from the air chamber. The SRC (Imaginary System Resistance Curve) must also be measured in the air chamber as it pertains to each application. The intersection of the FPC and SRC is the operating point (OP). Qb and Pb meet the requirement characteristics of the application.



MODEL NUMBERING SCHEME

| | | | | | | | | | |
|----|----|----|---|---|---|---|---|---|----|
| AD | 06 | 12 | H | X | - | A | 7 | 3 | GL |
|----|----|----|---|---|---|---|---|---|----|

Fan type: GL=Low noise; GP=Great performance; Blank=Standard

Motor protective circuit & Third Lead Wire:

0=by impedance; 3=by IC with speed sensor; 7=low speed; A=VS+RD; 1=by IC; 4=by IC with variable speed sensor(VS); 8=VS+FG; B=PWM+FG; 2=by IC with alarm (RD); 6=by transistor with speed sensor(FG); 9=PWM control; C=RD+FG

DC Impeller number: 5=5 blades; 7=7 blades; 9=9 blades; A=11 blades; B=13 blades; C=15 blades;

AC Lead wire type: T=Terminal; W=Wires

DC: Thickness: A=25mm; B=28mm; C=20mm; D=15mm; E=12mm; F=38mm; G=10mm; J=8mm; L=14mm; H=13mm;

P=50mm; K=6mm; Q=7mm; R=9mm; T=11mm; Y=32mm; Z=33mm; S=16mm; M=23mm; N=18mm

AC: Frame material: A=Aluminum alloy; P=Plastic

Bearing Type: X=HYPRO bearing; B= BALL bearing; S=SLEEVE bearing; F=FDB

Speed: D=Ultra Low; L=Low; M=Medium; H=High; U=Ultra high; X=Over Ultra high; V=Maximum high speed

DC Voltage: 03=3VDC; 05=5VDC; 12=12VDC; 24=24VDC; 48=48VDC AC Voltage: 1=110-120VAC (115VAC); 2=220-240VAC (230VAC)

DC Frame size: 15=15mm; 20=20mm; 02=25mm; 03=30mm; 35=35mm; 04=40mm; 45=45mm; 05=50mm; 06=60mm; 07=70mm; 08=80mm; 09=92mm; 12=120mm; 17=172mm

AC Frame size: 825=80x80x25mm; 836=80x80x38mm; 925=92x92x25mm; 125=120x120x25mm; 128=120x120x38mm; 178=172x150x38mm; 175=172x150x50mm

AD=Adda Brushless DC fan; AB=Adda Brushless DC Blower; AP=Adda Brushless Chip cooler AQ=Adda Brushless waterproof fan; AW=Adda CPU cooler; AA=Adda Brushless AC fan

Ball Bearing Type

(T) = wire is at 12 o'clock position

For quantities 100 and up, call for quote.

| MOUSER STOCK NO. | ADDA Part Number GL = Low Noise | Dim. (mm) L x W | VDC | Power (W) | Speed (RPM) | Air Flow (CFM) | Noise (dBA) | Price Each | | | |
|----------------------|------------------------------------|--------------------|-----|-----------|-------------|----------------|-------------|------------|-------|-------|-------|
| | | | | | | | | 1 | 10 | 25 | 50 |
| 664-D2506MB-12VLF | AD0212MB-K50(S)-LF | 25x6 | 12 | 0.84 | 12000 | 2.20 | 26.0 | 18.95 | 18.49 | 17.66 | 16.45 |
| 664-D2510LB-5VLF | AD0205LB-G50GL-LF | 25x10 | 5 | 0.50 | 8000 | 1.80 | 15.6 | 16.18 | 15.33 | 14.48 | 14.06 |
| 664-D3010LB-12VLF | AD0312LB-G50-LF | 30x10 | 12 | 0.72 | 8000 | 2.10 | 20.2 | 14.95 | 14.30 | 13.65 | 13.00 |
| 664-AD0312HBG50(S)LF | AD0312HB-G50(S)-LF | 30x10 | 12 | 1.32 | 10500 | 4.20 | 30.7 | 14.95 | 14.30 | 13.65 | 13.00 |
| 664-D3506LB-12VLF | AD3512LB-K70(S)-LF | 35x6 | 12 | 0.60 | 6000 | 3.50 | 19.0 | 17.50 | 16.63 | 15.61 | 14.63 |
| 664-D4010MB12V-LF | AD0412MB-G70-LF | 40x10 | 12 | 0.96 | 4800 | 5.70 | 20.0 | 11.26 | 11.02 | 10.79 | 10.32 |
| 664-D4010HB-12VLF | AD0412HB-G70-LF | 40x10 | 12 | 1.20 | 6000 | 6.70 | 25.0 | 11.26 | 11.02 | 10.79 | 10.32 |
| 664-D4010LB-12VLF | AD0412LB-G70(T)-LF | 40x10 | 12 | 0.84 | 4200 | 4.70 | 14.0 | 11.26 | 11.02 | 10.79 | 10.32 |
| 664-D4015HB-12VLF | AD0412HB-D50-LF | 40x15 | 12 | 1.44 | 8000 | 9.20 | 39.3 | 10.93 | 10.41 | 9.89 | 9.37 |
| 664-AD0412HB-D56LF | AD0412HB-D56-LF | 40x15 | 12 | 1.44 | 8000 | 8.53 | 39.3 | 17.48 | 16.72 | 15.20 | 14.06 |
| 664-D4020HB-5VLF | AD0405HB-C50-LF | 40x20 | 5 | 1.45 | 7800 | 9.90 | 31.9 | 13.07 | 12.45 | 11.83 | 11.20 |
| 664-D4020MB-12VLF | AD0412MB-C50-LF | 40x20 | 12 | 0.96 | 6900 | 8.50 | 28.5 | 10.93 | 9.89 | 8.85 | 8.59 |
| 664-AD0412HB-C56LF | AD0412HB-C56-LF | 40x20 | 12 | 1.20 | 7800 | 10.10 | 31.9 | 13.23 | 12.65 | 12.08 | 11.50 |
| 664-D0424HB-C50-LF | AD0424HB-C50-LF | 40x20 | 24 | 1.20 | 7800 | 10.10 | 31.9 | 13.34 | 12.76 | 12.18 | 11.60 |
| 664-AD0424HX-C50-LF | AD0424HX-C50-LF | 40x20 | 24 | 2.16 | 7800 | 10.10 | 31.9 | 32.63 | 26.10 | 22.84 | 20.88 |
| 664-D5210MB-5VLF | AD0505MB-G70-LF | 50x10 | 5 | 0.90 | 4300 | 9.00 | 24.0 | 12.67 | 12.12 | 11.02 | 10.47 |
| 664-AD0512HB-G70LF | AD0512HB-G70-LF | 50x10 | 12 | 1.08 | 5000 | 11.80 | 26.0 | 11.27 | 10.78 | 10.29 | 9.80 |
| 664-D5215HB1-12VLF | AD5012HB-D71-LF | 50x15 | 12 | 1.20 | 4600 | 12.00 | 28.7 | 13.77 | 12.86 | 11.94 | 11.02 |
| 664-D5215HB1-24VLF | AD5024HB-D71-LF | 50x15 | 24 | 1.92 | 4600 | 12.00 | 28.7 | 14.28 | 13.77 | 13.26 | 10.20 |
| 664-D6010HB-G70LF | AD0612HB-G70-LF | 60x10 | 12 | 1.68 | 4200 | 16.60 | 32.8 | 13.14 | 12.86 | 12.57 | 11.43 |
| 664-D6015HB1-5VLF | AD0605HB-D71GL-LF | 60x15 | 5 | 1.85 | 4500 | 15.82 | 32.4 | 16.18 | 15.41 | 14.64 | 13.87 |
| 664-D612LB-D72GL-LF | AD0612LB-D72GL-LF | 60x15 | 12 | 1.08 | 3500 | 12.62 | 25.3 | 13.75 | 12.93 | 11.83 | 11.00 |
| 664-D6015HB1-12V-LF | AD0612HB-D71GL-LF | 60x15 | 12 | 1.56 | 4500 | 15.82 | 32.4 | 11.70 | 11.36 | 11.03 | 10.69 |
| 664-D6020HB1-24LF | AD0624HB-C71GL-LF | 60x20 | 24 | 2.16 | 4500 | 16.31 | 29.7 | 10.91 | 10.37 | 9.83 | 9.28 |
| 664-AD0605LB-A72GLLF | AD0605LB-A72GL-LF | 60x25 | 5 | 1.10 | 2500 | 13.20 | 16.1 | 14.95 | 14.30 | 13.65 | 13.00 |
| 664-D6025MB-12VLF | AD0612MB-A70GL-LF | 60x25 | 12 | 1.68 | 3500 | 18.00 | 24.0 | 11.02 | 9.92 | 9.64 | 9.09 |
| 664-D6025HB-12VLF | AD0612HB-A70GL-LF | 60x25 | 12 | 2.76 | 4500 | 23.98 | 32.3 | 11.02 | 9.92 | 9.64 | 9.09 |
| 664-AD0612HBA72GL-LF | AD0612HB-A72GL-LF | 60x25 | 12 | 2.76 | 4600 | 24.78 | 35.2 | 14.06 | 13.31 | 12.50 | 12.19 |
| 664-D6025UB1-12VLF | AD0612UB-A71GL-LF | 60x25 | 12 | 3.24 | 5300 | 28.30 | 37.0 | 11.44 | 10.84 | 10.23 | 9.63 |
| 664-D6025HB-24VLF | AD0624HB-A70GL-LF | 60x25 | 24 | 3.60 | 4500 | 23.98 | 32.3 | 11.44 | 10.84 | 10.23 | 9.63 |
| 664-D8015HB1-24VLF | AD0824HB-D71-LF | 80x15 | 24 | 3.12 | 3200 | 32.00 | 33.6 | 13.99 | 13.30 | 12.60 | 11.90 |
| 664-D8020HB-12VLF | AD0812HB-C70-LF | 80x20 | 12 | 2.88 | 3100 | 29.08 | 32.4 | 10.04 | 9.54 | 9.03 | 8.54 |
| 664-D8025LB-12VLF | AD0812LB-A70GL-LF | 80x25 | 12 | 1.44 | 2100 | 28.10 | 22.5 | 11.15 | 8.73 | 8.48 | 7.99 |
| 664-D8025MB-12VLF | AD0812MB-A70GL-LF | 80x25 | 12 | 1.80 | 2500 | 33.50 | 28.3 | 11.15 | 8.73 | 8.48 | 7.99 |
| 664-D8025HB-12VLF | AD0812HB-A70GL-LF | 80x25 | 12 | 3.00 | 3000 | 40.80 | 34.4 | 11.15 | 8.73 | 8.48 | 7.99 |
| 664-AD0812LB-A76LF | AD0812LB-A76GL-LF | 80x25 | 12 | 1.44 | 2030 | 26.20 | 22.5 | 11.15 | 8.73 | 8.48 | 7.99 |
| 664-AD0812MB-A76LF | AD0812MB-A76GL-LF | 80x25 | 12 | 1.80 | 2440 | 31.40 | 28.3 | 11.15 | 8.73 | 8.48 | 7.99 |
| 664-D8025LB-24V-LF | AD0824LB-A70GL-LF | 80x25 | 24 | 2.16 | 2100 | 26.20 | 22.5 | 12.32 | 9.64 | 9.38 | 8.84 |
| 664-D8025HB-24LF | AD0824HB-A70GL-LF | 80x25 | 24 | 3.84 | 3100 | 38.99 | 35.0 | 12.32 | 9.64 | 9.38 | 8.84 |
| 664-D9225LB-A72GL-LF | AD0912LB-A72GL-LF | 92x25 | 12 | 1.56 | 2000 | 36.00 | 25.0 | 17.77 | 15.99 | 15.65 | 14.36 |
| 664-D9225LB-12VLF | AD0912LB-A70GL-LF | 92x25 | 12 | 1.56 | 2050 | 34.75 | 25.0 | 12.50 | 11.25 | 11.01 | 10.01 |
| 664-D9225HB-12VLF | AD0912HB-A70GL-LF | 92x25 | 12 | 3.00 | 2900 | 49.30 | 35.0 | 12.50 | 11.25 | 11.01 | 10.01 |
| 664-D9225MB-24VLF | AD0924MB-A70GL-LF | 92x25 | 24 | 2.88 | 2400 | 41.49 | 32.7 | 13.77 | 12.40 | 12.12 | 11.02 |
| 664-D9225HB-24LF | AD0924HB-A70GL-LF | 92x25 | 24 | 3.60 | 2900 | 49.30 | 35.0 | 13.77 | 12.40 | 12.12 | 11.02 |
| 664-D12025LB1-12VLF | AD1212LB-A71GL-LF | 120x25 | 12 | 2.88 | 1800 | 72.00 | 34.4 | 17.48 | 16.72 | 15.20 | 14.06 |
| 664-D12025HB1-12VLF | AD1212HB-A71GL-LF | 120x25 | 12 | 4.44 | 2200 | 88.70 | 39.1 | 17.48 | 16.72 | 15.20 | 14.06 |
| 664-AD1212HBA73GL-LF | AD1212HB-A73GL-LF | 120x25 | 12 | 4.40 | 2200 | 88.71 | 39.1 | 17.95 | 17.18 | 15.62 | 14.45 |
| 664-AD1212UBA73GL-LF | AD1212UB-A73GL-LF | 120x25 | 12 | 6.00 | 2500 | 98.60 | 43.3 | 22.50 | 21.00 | 19.50 | 18.00 |
| 664-D12025HB-12VLF | AD1212HB-Y53-LF | 120x32 | 12 | 4.80 | 2750 | 108.00 | 43.3 | 24.00 | 20.00 | 17.00 | 14.00 |
| 664-D12038MB1-12VLF | AD1212MB-F51-LF | 120x38 | 12 | 4.20 | 2540 | 94.00 | 41.0 | 22.53 | 21.55 | 19.59 | 18.12 |
| 664-D12038HB1-24LF | AD1224HB-F51-LF | 120x38 | 24 | 7.68 | 2800 | 104.80 | 42.8 | 23.70 | 22.67 | 20.61 | 19.06 |
| 664-AD1224UBF52-LF | AD1224UB-F52-LF | 120x38 | 24 | 9.60 | 3200 | 122.00 | 48.0 | 16.86 | 14.66 | 12.83 | 11.73 |
| 664-D12038HB1-48VLF | AD1248HB-F51-LF | 120x38 | 48 | 9.60 | 2800 | 104.80 | 42.8 | 24.87 | 23.79 | 21.63 | 20.01 |

Sleeve Bearing Type

For quantities 100 and up, call for quote.

| | | | | | | | | | | | |
|----------------------|-------------------|-------|----|------|------|-------|------|-------|-------|-------|-------|
| 664-D5210MS12V-LF | AD0512MS-G70-LF | 50x10 | 12 | 0.96 | 3300 | 8.50 | 24.9 | 6.34 | 6.06 | 5.79 | 5.51 |
| 664-D6015MS-12V-LF | AD0612MS-D70GL-LF | 60x15 | 12 | 1.32 | 2900 | 14.20 | 28.8 | 10.47 | 10.01 | 9.56 | 9.10 |
| 664-D6020LS-12VLF | AD0612LS-C70GL-LF | 60x20 | 12 | 0.96 | 3500 | 13.30 | 21.6 | 7.84 | 7.57 | 7.30 | 6.76 |
| 664-D6020HS-12VLF | AD0612HS-C70GL-LF | 60x20 | 12 | 1.92 | 4500 | 16.40 | 29.7 | 7.84 | 7.57 | 7.30 | 6.76 |
| 664-D6025HS-12VLF | AD0612HS-A70GL-LF | 60x25 | 12 | 2.76 | 4500 | 23.20 | 32.3 | 8.31 | 7.93 | 7.55 | 7.18 |
| 664-AD0812HS-D70LF | AD0812HS-D70-LF | 80x15 | 12 | 2.16 | 3200 | 30.26 | 33.4 | 13.50 | 13.05 | 12.60 | 12.15 |
| 664-D8025MS-12VLF | AD0812MS-A70GL-LF | 80x25 | 12 | 1.80 | 2440 | 31.40 | 28.3 | 7.16 | 5.60 | 5.45 | 5.14 |
| 664-D8025HS-12VLF | AD0812HS-A70GL-LF | 80x25 | 12 | 3.00 | 3010 | 38.60 | 34.4 | 7.16 | 5.60 | 5.45 | 5.14 |
| 664-AD0824HS-A70GLLF | AD0824HS-A70GL-LF | 80x25 | 24 | 3.84 | 3200 | 40.00 | 35.0 | 8.63 | 8.25 | 7.50 | 7.13 |
| 664-D9225MS-12VLF | AD0912MS-A70GL-LF | 92x25 | 12 | 2.04 | 2350 | 43.00 | 31.0 | 8.16 | 7.35 | 7.19 | 6.53 |
| 664-D9225HS-12VLF | AD0912HS-A70GL-LF | 92x25 | 12 | 3.00 | 2700 | 50.00 | 33.7 | 8.16 | 7.35 | 7.19 | 6.53 |
| 664-AD0912USA70GL-LF | AD0912US-A70GL-LF | 92x25 | 12 | 3.50 | 3300 | 57.80 | 39.4 | 13.15 | 11.92 | 10.52 | 9.56 |