DC Fan



Features

• DC fans often offer variable speed settings, allowing users to adjust the fan speed according to their preference or cooling requirements.

• They consume less power compared to traditional AC fans, making them more cost-effective and environmentally friendly.

Many DC fans are designed to operate quietly, especially at lower speeds.
DC fans feature PWM control, allowing for precise adjustment of fan speed by modulating the power supplied to the fan.

Specification



Rated Voltage	24 VDC		
Operation Voltage	14 ~ 26.4 VDC		
Input Current	UL 0.11 A		
Input Power	2.64 W		
Speed	3000 ± 10% R.P.M		
Speed Control Type	PWM Control		
Signal Output	Frequency Generator		
Max. Air Flow (at Zero Static Pressure)	1.57 (1.41 min) m³/ min		
	55.50 (50 min) CFM		
Max. Air Pressure (at Zero Flow)	4.20 (3.40 min) mm-H₂O		
Max. All Pressure (at Zero How)	0.17 (0.13 min) inch-H2C		
Acoustical Noise	37 (40 Max) dB-A		
Insulation Resistance	10 MOhms @ 500 VDC		
ielectric Strength 5 mA @ 500 VAC 60Hz			
Life Expectance	xpectance 70,000 Hrs @ 40 °C; Humdity 15 % ~ 65 % RH		
Rotation	Counter-Clockwise viewed from Inlet		
Air Flow Direction	tion Air Exhaust over Strut		
Insulation Class	UL: Class A		

Mechanical

Frame	Thermoplastic Black/ PBT+30 % GF of UL 94-V0	
Fan Blade	Thermoplastic Black/ PBT+15 % GF of UL 94-V0	
Bearing System	Two Ball Bearings	
Weight	98g	

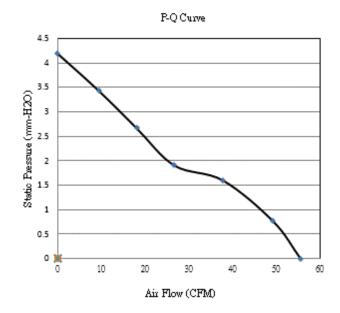
Environment

Operation Temperature	-10 ~ 70 °C
Storage Temperature	-40 ~ 75 °C
Operation Humidity	5 to 90 % RH
Storage Humidity	5 to 95 % RH
Sinewave Displacement	075 mm
Frequency Range	10-55 Hz/ 30 sec; 55-10 Hz/30 sec
Linear Scanning	120 cycle
Endurance Time per Axis	2 Hrs
Peak Acceleration	50g
Compliance	ROHs
Fan Dust & Waterproof Level	IP54

Protection

Locked Rotor Protection	Yes	
Polarity Protection	Yes	
Auto-Restart Protection	Yes	

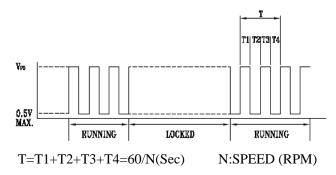
P & Q Curve



Signal Specification

Output Type	Open Collect
VFG Maximum Voltage	12 V
IC Maximum Current	5 mA
Low Level Voltage	0.5 V Max R ≥ VFG / Ic

Frequency Generator Waveform



PWM Control

Control Signal	PWM Control
Input High Level Voltage	> 2.6 V , Max < 5 V
Input Low Level Voltage	Max < 0.5 V
PWM Frequency Range	1 KHZ ~ 100 KHZ
Max. Sink Current	8 mA

Fan Speed Control

Input Voltage	5 VDC
PWM Frequency	25 KHZ

Drawing

Duty (%)	25%	50%	75%	100%
Speed R.P.M (REF)	1000 REF	$1800 \pm 25\%$	$2450 \pm 20\%$	$3000 \pm 10\%$

