

ACTIVA INC.

SPECIFICATION SHEET



MODEL NO. :	DFG60180V12HB
DESCRIPTION :	DC CROSS FLOW FAN
VERSION :	A
RELEASED DATE :	2020.08.11

APPROVED BY	PREPARED BY
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2020.08.11	2020.08.11

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PRODUCT SPECIFICATION

A. General Specification

Item		Specification		Condition
1	Model No.	DFG60180V12HB		
2	Outline Dimension	Ø60 x 180	mm	
3	Rated Voltage	DC 12	V	
4	Operating Voltage Range	DC 10.2~13.8	V	
5	Start Voltage	DC 8	V	
6	Rated Current	0.95	A	At Rated Voltage, 25°C, 65% RH, Free Air
7	Power Consumption	11.4	W	
8	Rotating Speed	2200	RPM ±10%	At Rated Voltage, 25°C, 65% RH, Free Air
9	Max. Airflow	99	CFM	At Rated Voltage AMCA 210 Standard
		2.8	m ³ /min	
10	Max. Static Pressure	5.9	mmH ₂ O	At Rated Current
		0.23	inchH ₂ O	
11	Noise Level	50	dBA	At Rated Voltage Measured in a non-echo Chamber CNS 8753 Standard ISO 3744 Test Condition
12	Life	30,000hrs	at 25°C	MTTF (Mean Time To Failures) at Confidence. Level 90%
13	No. of Pole	4	Poles	
14	Output Direction	Horizontal Output Shaft		
15	Rotating Direction	Clockwise View From Motor		
16	Weight	610	g	
17	Motor Type	DC Brushless Fan Motor		
18	Speed Control	N/A		
19	Signal Output	N/A		

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B. Main Materials / Parts Specification

Materials / Parts		Specification
1	Housing	Aluminum Die Casting
2	Blade	Aluminum
3	Bearing	Ball Bearings
4	Termination	Lead Wires Red(+),Black(-) UL:1007 AWG#22
5	Connector	N/A

C. Safety Approvals

Safety Approvals	UL	TUV	
File Number	N/A	N/A	

D. Environmental Specification

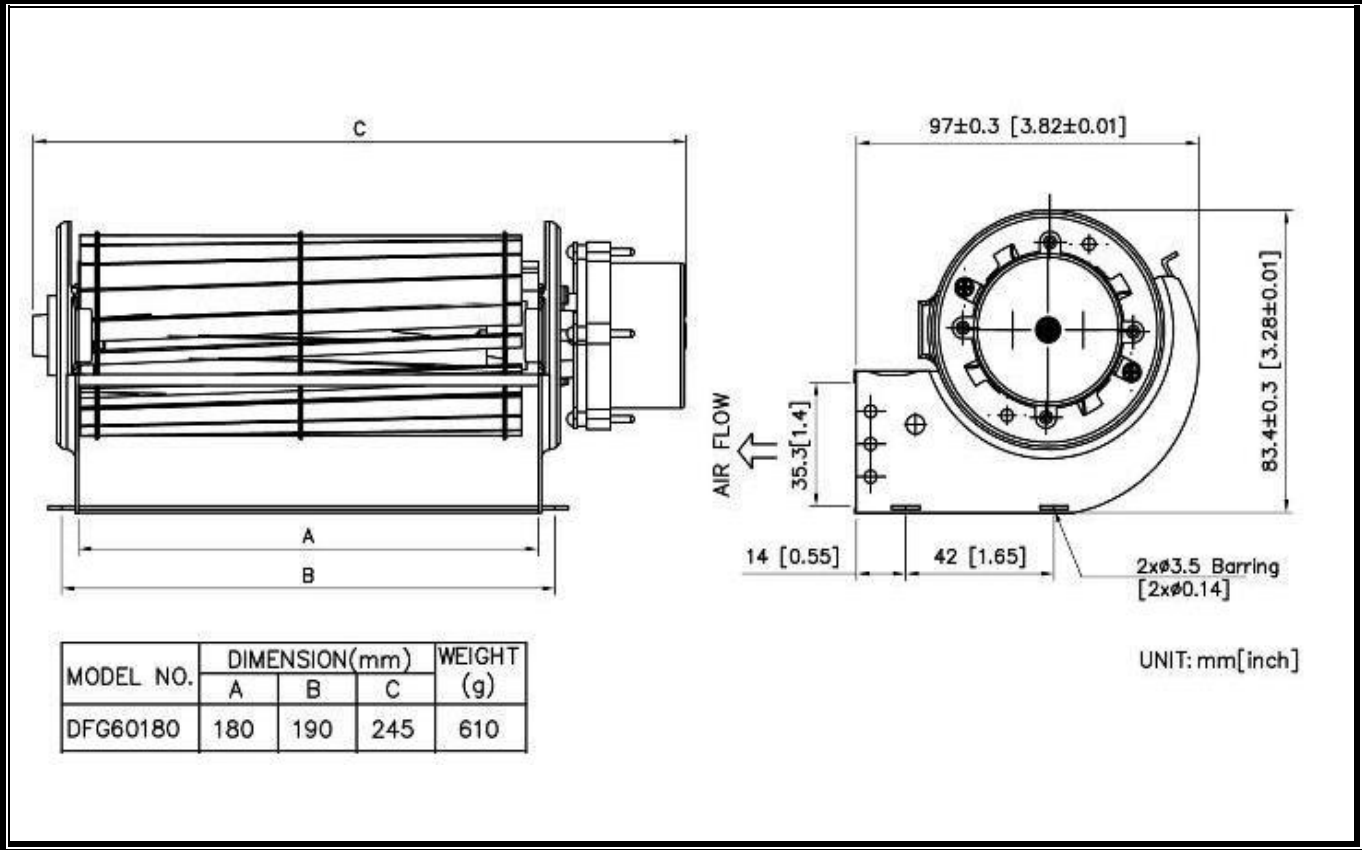
Item		Specification / Condition
1	Operating Temperature	Temperature : 0°C ~ 45°C Humidity : 10% - 90% RH (Frost Eliminated)
2	Storage Temperature	All function shall be normal after 500 hours storage at -20°C to +60°C with a 24 hours recovery period at room temperature.
3	Humidity Test	Per MIL-STD 202F Method 103B; Life: 96 hours; Humidity : 95% RH; Temperature: 40 ± 2°C
4	Thermal Shock	Per MIL-STD 202F Method 107D, Condition D
5	Insulation Shock	Class A

E. Electrical Specification

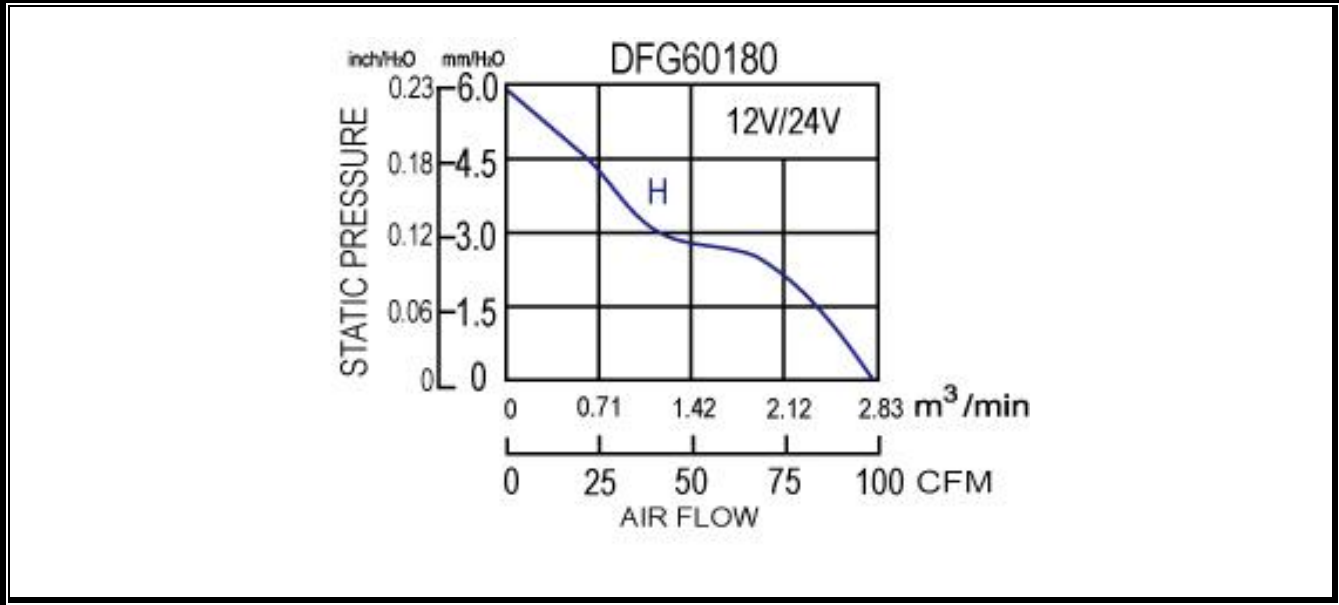
Item		Specification/Condition
1	Insulation Resistance	Minimum 10MΩ Between frame and AC lead wire / terminal at 500VDC for 60 seconds
2	Dielectric Strength	Maximum leakage 5ma between frame and AC lead wire / terminal at 500VAC for 60 seconds.
3	Locked rotor Protection	Built-in controller will begin to motivate the fan motor to get it start rotating again when the fan speed suddenly drops to zero in a stuck state

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F. Outline Dimension



G. Airflow Performance



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H. Notes:

1. All specifications are measured after 5 min. rotating. Activa will not assume responsibility for Performance of products if application condition is outside of parameters stated forth in the specification.
2. A written request should be submitted to Activa prior to approval if abnormality and deviation from This specification is required.
3. Please be cautious when fan is being exercised or handled. Applying pressure to the impeller, handling The fan by lead wire or dropping the fans to the production platform is resulting in damage.
4. The operating voltage and temperature were defined after fan rotating continually at rated voltage.
5. If fan was stocked at an ambient temperature under 5°C and over 24 hrs. Please stock fans to an Ambient temperature over 20°C and remained over 24 hrs before using. All specifications include Abnormal noise has to be measured after 30 minute running.
6. Noise Level is different from abnormal noise. Please send abnormal samples to Activa to analyze. We estimate noise level by equation when noise level is lower than background noise (17dB).
7. Starting Voltage was defined on power on/off condition. Rotational speed was defined on full speed By it's rated value.
8. The correct polarity, Positive (+) and Negative (-), has to be clearly identified before connecting the fan to the power. Be aware of the connection with reverse polarity may lead to damage since no effective Protection can be introduced against such errors.
9. L10 of Life test is a deductive value under statistical method and it is different from product warranty.
10. All general specifications and quality values are measured under condition of free air and fan vertical Set up. Activa highly suggests practicing a test when fan apply to a special application.
11. with exception of suitability of some particular designs, any failure and problems regarding safety of The product caused by the introduction of powder, droplets of water or encroachment of insert in the Hub is not guaranteed.
12. Activa fans are not well suited for corrosive environments. This includes liquids, gases, or matters.
13. Except for the feature of the Lock Rotor Protection specifically stated, this feature is not applied to all Fans. Activa highly suggests not stopping the impellers of the working fans such interruption will Cause adverse effect.
14. Fans are to be stored in a dry/cool place. High levels of humidity are harmful to products.
15. Please be cautious. Activa is not responsible for any excess resonance, vibration and subsequent noise caused by incorrect mounting of fans.
16. Take necessary precaution handling fans when in operation. Finger guards are recommended to Prevent personal injury.
17. All test environments are conducted under the condition of relative (ambient) temperature and humidity At 25°C, 65%. The test result stated above is effective only for unique fan performance.
18. To avoid any unstable power, an "over 4.7 μ F" capacitor has definitely be connected to fan externally Whatever multiple fans are applied in parallel.
19. The above conditions are examples of extreme application. However they are very important and Should receive top priority.
20. Activa Inc has reserves the right to substitute the specification without prior notice.