

PWM and IP Protected DC Fan 12038VE (E-Type)

NMB

General Specifications

Motor Type:

DC Brushless Motor

Motor Protection:

Auto Restart / Polarity Protection (Motor withstands reverse connection for positive and negative leads.)

Insulation Resistance:

10MΩ or over with a DC 500V Megger

Dielectric Withstand Voltage:

AC 500V 1min or AC 700V 1sec

Allowable Ambient Temperature Range:

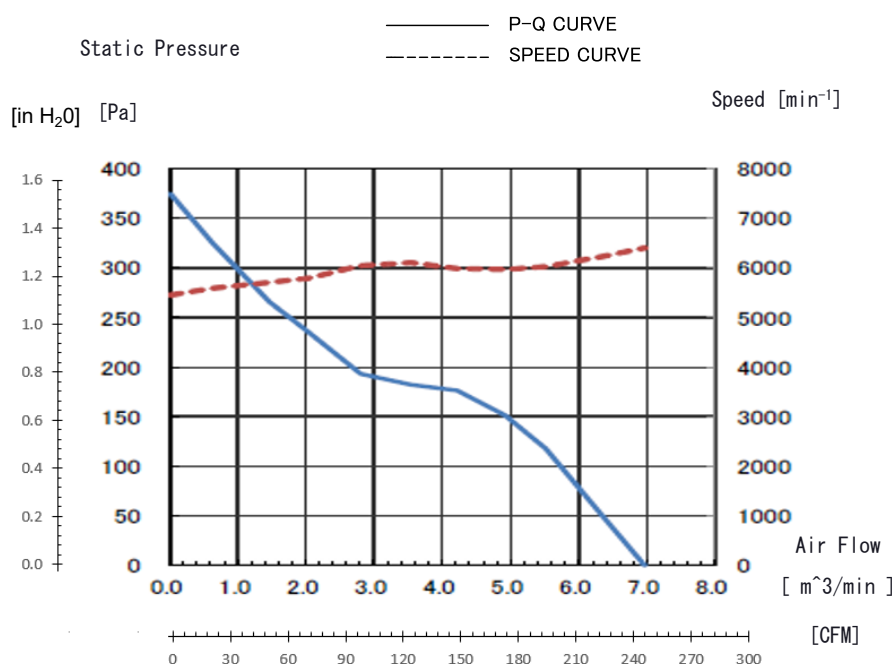
-10°C ~ + 60°C (Operating)

-40°C ~ + 70°C (Storage)

(non-condensing environment)

**For reference only. Please see fan outline for details*

Characteristic Curves



Features

- DC axial fan with outstanding P-Q performance, PWM speed control, tach output and IP68 potting
- Vertically integrated manufacturing, with components made in-house
- IP68 potting offers highest level of protection from water/dust ingress
- Outfitted with NMB precision machined stainless steel ball bearings for long life
- Ideal for applications such as EV chargers, PV inverters, telecom cabinets, small cell 5G network and outdoor applications

Life Expectancy L10

40,000 Hours at 60 Celsius

**Fan life expectation is based on free air operation at 60°C, rated voltage, and indoor benign lab environment*

**1: Values in Free Air*

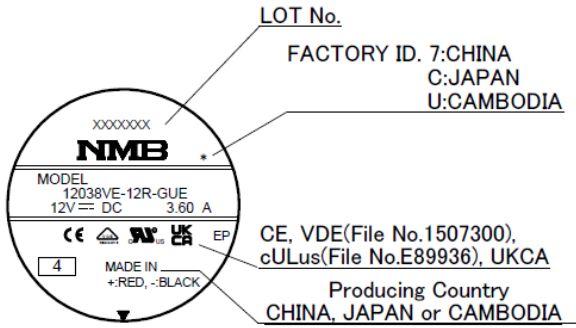
Specifications

MODEL	Rating Voltage (V)	Operating Voltage (V)	Current (A)*1		Input Power (W)*1		Speed Inlet/Outlet (RPM)	Max. Air Flow (CFM)		Max. Static Pressure (Pa)		Noise (dB)*1	Mass (g)
			Avg	Max	Avg	Max		(m ³ /min)	(in H ₂ O)				
12038VE-12R-GUE-4	12	10 to 12.6	3.20	3.60	38.4	43.2	6,400	243.67	6.90	1.5	370	66	430

12038VE (E-Type)

Outlines

(Name Plate)



Materials

Casing: Plastic (Black UL 94V-0)

Impeller: Plastic (Black UL 94V-0)

Bearing: Stainless Steel Ball Bearing

Lead Wire: UL3443 AWG24 for

- Red (+)
- Black (-)
- White (Tach)
- Brown (PWM)

(Outline)

(Panel Out-line)