

# PWM and IP Protected DC Fan 12038ME (0-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:

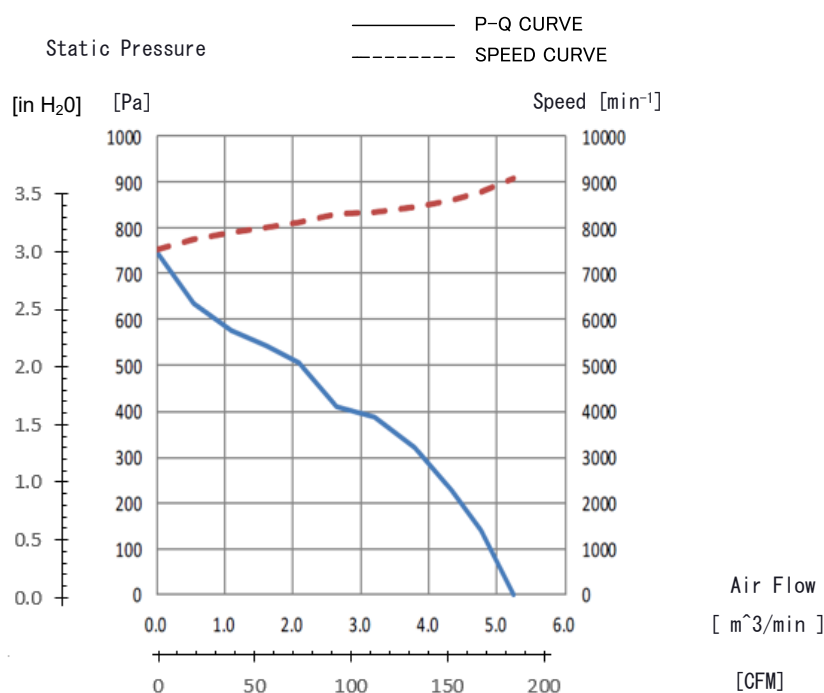
-10°C ~ + 70°C (Operating)

-30°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 ceramic ball bearings for long life and high temperature
- 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 40 Celsius

*\*Fan life expectation is based on free air operation at 40°C, rated voltage, and indoor benign lab environment*

*\*1: Values in Free Air*

## Specifications

MODEL	Rating Voltage (V)	Operating Voltage (V)	Current		Input Power		Speed Inlet/Outlet (RPM)	Max. Air Flow		Max. Static Pressure		Noise (dB) <sup>*1</sup>	Mass (g)
			Avg (A) <sup>*1</sup>	Max (A) <sup>*1</sup>	Avg (W) <sup>*1</sup>	Max (W) <sup>*1</sup>		(CFM)	(m <sup>3</sup> /min)	(in H <sub>2</sub> O)	(Pa)		
12038ME-48R-GK-01	48	38 to 60	0.82	1.10	39.36	52.80	9,000	185.40	5.25	2.97	740	72	650



# 12038ME (0-Type)

## Outlines

(Name Plate)

## Materials

**Casing:** OPTP

**Impeller:** Plastic (Black UL 94V-0)

**Bearing:** 6W DCOHVV6W HAD Bearing

**Lead Wire:** UL3443 AWG24 for

Red (+)

Black (-)

White (Tach)

Brown (PWM)

(Outline)

(Panel Out-line)