### Frame & Impeller
- **Frame**: Diecast aluminum
- **Impeller**: UL94V-0 Thermoplastic

### Connection
- 4 Lead wires *

### Motor
- DC brushless, IC protected

### Bearing System
- Dual ball bearing

### Insulation Resistance
- Min. 10M at 500VDC

### Dielectric Strength
- 1 minute at 500 VAC, max leakage < 500 MicroAmp

### Temperature Range
- -10°C ~ +65°C

### Storage Temperature
- -40°C ~ +80°C

### Life (L10)
- -40,000 hours (40°C)

### Features:
- **Signal Output**: Tachometer
- **Speed Control**: PWM

### Weight
- ~1030g (2.27 lbs)

### Part Number
- ODB17567-12HB10A

### Nominal Voltage
- 12VDC

### Voltage Range
- 8 ~ 14 VDC

### Nominal Current
- 4.2 A

### Rated Power
- 50.4 W

### Rated Speed (RPM)
- 3000

### Airflow (CFM)
- 338

### Noise Level (dB)
- 64

### Max. Static Pressure
- 1.08” H₂O

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*FO 2 pulses per revolution

**TRANSISTOR Q1 AT "ON" POSITION**
- Collector Current: \( I_C = 10mA \) MAX
- Saturation Voltage: \( V_{CE} = 1 V \) MAX

**TRANSISTOR Q1 AT "OFF" POSITION**
- Release Voltage: \( V_{CE} \geq V_{Min} \)

**DIGITAL PWM SPEED CONTROL POSITION**
- PWM Input Voltage High: \( V_{IH} \geq 4V \)
- PWM Input Voltage Low: \( V_{IL} \leq 1V \)

**PWM INPUT FREQUENCY**
- PWM: \( 1Hz - 20kHz \)

Blower will run full speed at 100%, stop at 0%, full speed if PWM not connected.
**ODB17567-24HB10A**  
**DC Motorized Impeller 24V**  
**175x67mm (6.9”x2.6”)**

### Features:
- **Signal Output:** Tachometer
- **Speed Control:** PWM

### Dimensions:
- **Weight:** ~ 1030g (2.27 lbs)
- **Part Number:** ODB17567-24HB10A

### Specifications:
- **Nominal Voltage:** 24VDC
- **Voltage Range:** 15 ~ 27.6 VDC
- **Nominal Current:** 2.1 A
- **Rated Power:** 50.4 W
- **Rated Speed (RPM):** 3000
- **Airflow (CFM):** 338
- **Noise Level (dB):** 64
- **Max. Static Pressure:** 1.08” H₂O

### Frame & Impeller:
- **Frame:** Diecast aluminum
- **Impeller:** UL94V-0 Thermoplastic

### Connection:
- 4 Lead wires *

### Motor:
- **Type:** DC brushless, IC protected

### Bearing System:
- **Dual ball bearing**

### Insulation Resistance:
- **Min. 10M at 500VDC**

### Dielectric Strength:
- 1 minute at 500 VAC, max leakage < 500 MicroAmp

### Temperature Range:
- **-40C ~ +65C**

### Storage Temperature:
- **-40C ~ +80C**

### Life (L10):
- **40,000 hours (40C)**

### Notes:
* FG 2 pulses per revolution
* TRANSISTOR Q1 AT "ON" POSITION
  - COLLECTOR CURRENT: 2.0A MAX
  - SATURATION VOLTAGE: Vce ≤ 1V MAX
* TRANSISTOR Q1 AT "OFF" POSITION
  - RELEASE VOLTAGE: Vce ≤ 2V Max
  - DIGITAL PWM SPEED CONTROL POSITION
  - PWM INPUT VOLTAGE HIGH: Vce ≤ 14V
  - PWM INPUT VOLTAGE LOW: Vce ≤ 4V
* PWM INPUT FREQUENCY: Fpwm = 10kHz

Blower will run full speed at 100%, stop at 0%, full speed if PWM not connected.
### ODB17567-48HB10A DC Motorized Impeller 48V

175x67mm (6.9”x2.6”)

<table>
<thead>
<tr>
<th>Frame &amp; Impeller</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frame</td>
<td>Diecast aluminum</td>
</tr>
<tr>
<td>Impeller</td>
<td>UL94V-0 Thermoplastic</td>
</tr>
</tbody>
</table>

| Connection | 4 Lead wires * |
| Motor | DC brushless, IC protected |
| Bearing System | Dual ball bearing |
| Insulation Resistance | Min. 10M at 500VDC |
| Dielectric Strength | 1 minute at 500VAC, max leakage < 500 MicroAmp |
| Temperature Range | -10C ~ +65C |
| Storage Temperature | -40C ~ +80C |
| Life (L10) | -40,000 hours (40C) |

| Features: |
| Signal Output: Tachometer |
| Speed Control: PWM |

| Weight | ~ 1030g (2.27 lbs) |

| Part Number | ODB17567-48HB10A |
| Nominal Voltage | 48VDC |
| Voltage Range | 22 ~ 54 VDC |
| Nominal Current | 1.10 A |
| Rated Power | 52.8 W |
| Rated Speed (RPM) | 3000 |
| Airflow (CFM) | 338 |
| Noise Level (dB) | 64 |
| Max. Static Pressure | 1.08” H₂O |

* *FO 2 pulses per revolution
* **TRANSISTOR Q1 AT "ON" POSITION**
  - COLLECTOR CURRENT: 10mA MAX
  - SATURATION VOLTAGE: 1 V MAX
* **TRANSISTOR Q1 AT "OFF" POSITION**
  - RELEASE VOLTAGE: V₀ = Vᵢ MAX
* **DIGITAL PWM SPEED CONTROL POSITION**
  - PWM INPUT VOLTAGE HIGH: 1.4V
  - PWM INPUT VOLTAGE LOW: 4.8V

*PWM INPUT FREQUENCY: 500kHz

Blower will run full speed at 100%, stop at 0%, full speed if PWM not connected.