

# SANYO DENKI 冷卻系統產品

PWM 控制器



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## PWM 控制器



**PWM 控制器**是可遠程控制 PWM 風扇速度的產品。通過使用該產品，無需準備新電路即可充分利用 PWM 風扇，從而有助於降低系統功耗和噪聲水平。

### 特點

- 有助於降低系統功耗和噪聲

此功能通過在需要時自動進行調整來實現最佳氣流。因此，它可有效冷卻設備，降低設備噪音和功耗。

- 控制風扇速度的三種簡單方法

**PWM 控制器**集成了三種控制方法，可充分利用 PWM 風扇。

### 1. 電壓控制

通過將範圍從狹窄的 0-5 V 模擬電壓擴大到較大的 0 至 100% PWM 佔空比，該控制器為用戶提供了風扇速度的精確控制。

### 2. 可變電阻控制

使用 Box 型時，用戶可以通過簡單，直觀的旋鈕操作來控制風扇速度。用戶甚至可以通過添加一個外部可變電阻器來遠距離控制風扇。\*

### 3. 熱敏電阻控制

連接熱敏電阻可使風扇速度根據預設溫度（30 至 50°C）自動變化。

\*可變電阻和熱敏電阻應由用戶準備。

## 規格資料

### Specifications

Box type		9PC8666X-S001		9PC8666X-S101			
Model no.		9PC8666X-S001		9PC8666X-S101			
Size [mm]		86 (H) × 66 (W) × 38 (D)					
Rated voltage [V]		12/24/48					
Power consumption [W]		0.2 <sup>(1)</sup>					
Operating temperature [°C]		-20 to +70					
Input terminal	Input voltage range [V] (V+, V-)	7 to 60					
	Control voltage range [V]	0 to 5.5					
Output terminal	PWM signal output	V <sub>OH</sub> (high level voltage): 3.3 or 5 VDC selectable					
	PWM frequency [kHz]	25	1				
Output terminal	Output current	20 mA max. (total sum of 4 terminals)					
	Output breakdown voltage [V]	6.5					
No. of connectable fans		Up to 4 fans					
Control functions <sup>(2)</sup>		Voltage control, Internal adjustment (variable resistor) control, External adjustment (variable resistor) control <sup>(3)</sup> , Thermistor control <sup>(3)</sup>					
Mounting method		DIN rail mounting or screw mounting					
Mass [g]		110					
Material		Case: Plastic					
PCB type							
Model no.		9PC8045D-V001	9PC8045D-R001	9PC8045D-T001	9PC8045D-V101	9PC8045D-R101	9PC8045D-T101
Size [mm]		80 (H) × 45 (W) × 17 (D)					
Rated voltage [V]		12/24/48					
Power consumption [W]		0.2 <sup>(1)</sup>					
Operating temperature [°C]		-20 to +70					
Input terminal	Input voltage range [V] (V+, V-)	7 to 60					
	Control voltage range [V]	0 to 5.5					
Output terminal	PWM signal output	V <sub>OH</sub> (high level voltage): 3.3 or 5 VDC selectable					
	PWM frequency [kHz]	25	1				
Output terminal	Output current	20 mA max. (total sum of 4 terminals)					
	Output breakdown voltage [V]	6.5					
No. of connectable fans		Up to 4 fans					
Control functions		Voltage control	Variable resistor control <sup>(3)</sup>	Thermistor control <sup>(3)</sup>	Voltage control	Variable resistor control <sup>(3)</sup>	Thermistor control <sup>(3)</sup>
Mounting method		Screw mounting					
Mass [g]		27					
Material		PCB: FR-4					

(1) When output terminals are turned on. (2) Control functions are mutually exclusive for Box type.

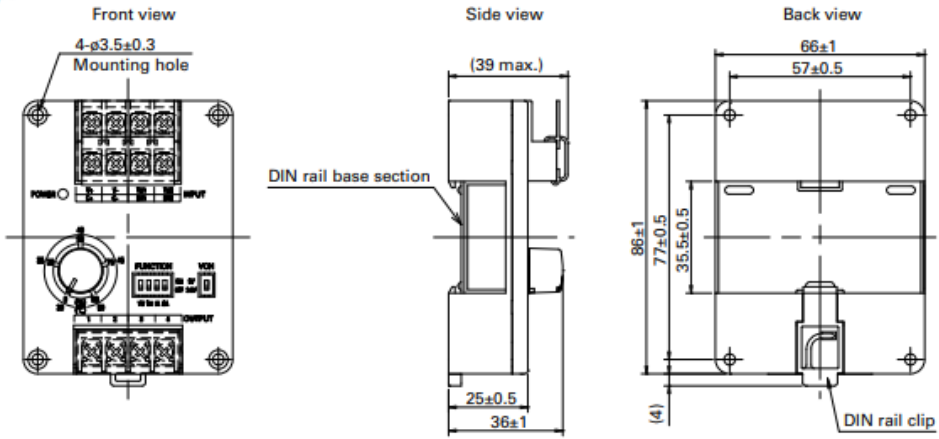
(3) Variable resistor and thermistor are not supplied with the controller and need to be prepared separately.

Be noted that if applied input voltage or frequency is out of range of the connected fan, how the fan speed responds to the PWM duty cycle may be altered.

## 尺寸資料



• Box type



• PCB type

