

HG\$Ter\$Q sxsww

# Long Life Fan □ 140mm

WER\$EGI 584P



Long Life Fans

**Life expectancy**

6,000 hours (S speeds), 100,000 hours (H, M speeds),  
indoor environment (survival rate: 90% at 60°C, rated voltage,  
and continuously run in a free air state)

**Motor protection system** ····· Current cut system (with reverse-connection protection)

**Dielectric strength** ····· 50/60 Hz, 500 VAC, 1 minute  
(between lead conductor and frame)

**Operating thermally range** -10°C to +70°C (non-condensing)

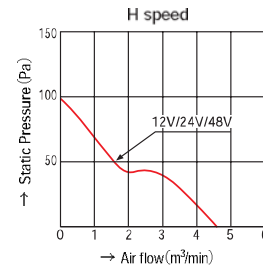
**Fan power lead** ····· S, H speed, ⊕ red, ⊖ black  
M speed, ⊕ red, ⊖ blue

7<q q xlngo

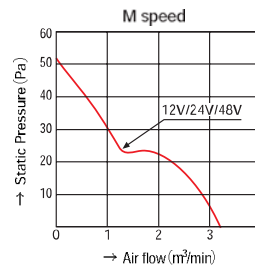
**Performance**

Model No	Rated voltage (V)	Operating voltage range (V)	Rated current (A)	Rated input (W)	Rated rotating speed (min <sup>-1</sup> )	Air flow (m <sup>3</sup> /min) (CFM)	Static pressure (Pa)	Noise (dB(A))	Mass (g)
54=P5856L 546	12	10.2~13.8	0.73	8.76	2,600	4.5	159	98	600
54=P5856Q 546			0.3	3.6	1,900	3.3	117	38	
54=P5868L 546			0.37	8.88	2,600	4.5	159	98	
54=P5868Q 546	24	20.4~27.6	0.16	3.84	1,900	3.3	117	38	
54=P588<L 546			0.2	9.6	2,600	4.5	159	98	
54=P588<Q 546			0.09	4.32	1,900	3.3	117	38	

**Static pressure vs. Air flow characteristics**



54=P5856L 546  
54=P5868L 546  
54=P588<L 546



54=P5856Q 546  
54=P5868Q 546  
54=P588<Q 546

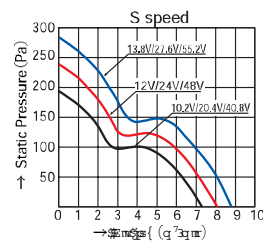
95 q q xlngo

**Performance**

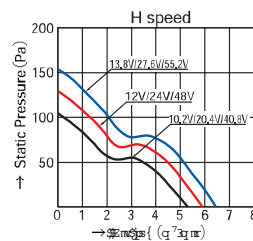
Model No	Rated voltage (V)	Operating voltage range (V)	Rated current (A)	Rated input (W)	Rated rotating speed (min <sup>-1</sup> )	Air flow (m <sup>3</sup> /min) (CFM)	Static pressure (Pa)	Noise (dB(A))	Mass (g)
=PF5856W 946	12	10.2~13.8	2.7	32.4	4,200	8.1	286	57	610
=PF5856L 946			1.25	15.0	3,100	5.9	208	130	
=PF5856Q 946			0.46	5.5	2,050	3.9	138	63	
=PF5868W 946	24	20.4~27.6	1.38	33.1	4,200	8.1	286	57	
=PF5868L 946			0.60	14.4	3,100	5.9	208	130	
=PF5868Q 946			0.22	5.3	2,050	3.9	138	63	
=PF588<W 946	48	40.8~55.2	0.71	34.1	4,200	8.1	286	57	
=PF588<L 946			0.27	13.0	3,100	5.9	208	130	
=PF588<Q 946			0.12	5.8	2,050	3.9	138	63	

140mm

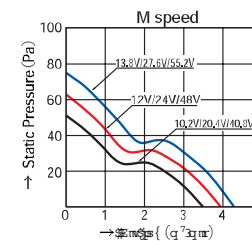
**Static pressure vs. Air flow characteristics**



=PF5856W 946  
=PF5868W 946  
=PF588<W 946

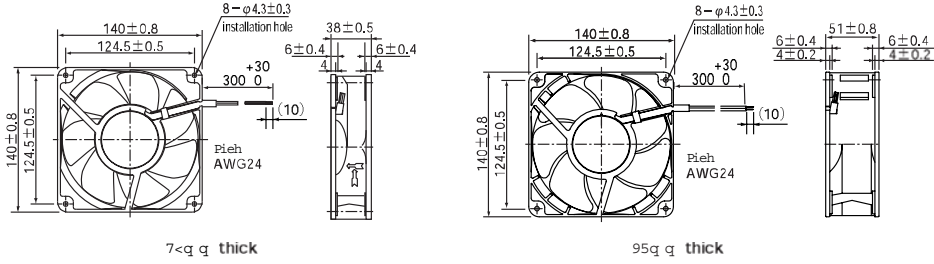


=PF5856L 946  
=PF5868L 946  
=PF588<L 946



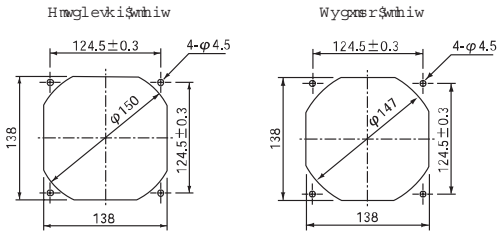
=PF5856Q 946  
=PF5868Q 946  
=PF588<Q 946

Horizontal fan



Long Life Fans

Vertical fan



140mm

**SANYO DENKI**

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LsqiŠtekiŠxt3( ( { 2er)shir0gs2t

Rev.A

# How to read the model number

## General fans

<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">109</div> <p>Represents a fan motor.</p> <p>Additional number: Used to classify the remodeling performed or for other purposes.</p> <p>P : Mold frame type R : Mold frame type E : Aluminum frame L : Long Life Fan W : Splash Proof Fan</p>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">R</div>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">12</div> <p>Frame dimensions code</p> <p>04 : 40 x 40mm 05 : 52 x 52mm 06 : 60 x 60mm 08 : 80 x 80mm 09 : 92 x 92mm <b>12 : 119 x 119mm</b> 14 : 140 x 140mm 17 : 172mm dia 57 : 172mm dia, 51 mm wide, side cut</p>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">12</div> <p>Voltage code</p> <p>05 : 5v <b>12 : 12V</b> 21 : 21V 24 : 24V 48 : 48V</p>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">H</div> <p>Speed code</p> <p>S : Super-speed H : <b>High speed</b> F : Medium speed between H and M M : Middle speed L : Low speed W : Wide range MH: Two speeds, H and M</p>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">1</div>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">D01</div> <p>Sensor and specific specification code</p> <p>01 : With pulse sensor 02 : Sensor-less <b>D01</b> : With lock sensor H01: With low-speed sensor</p>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">1</div> <p>Frame thickness code</p> <p><b>1 : 38mm thick</b> 5: 51mmthick 2 : 32mm thick 6 : 20mm thick 3 : 28mm thick 7 : 15mmthick 4 : 25mm thick</p>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">1</div> <p>Ribless 1 Ribbed</p>
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## Thermally speed controlled fans

<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">109</div> <p>Represents a fan motor.</p> <p>Additional number: Used to classify the remodeling performed or for other purposes.</p> <p>P : Mold frame type <b>R : Mold frame type</b></p>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">R</div>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">12</div> <p>Frame dimensions code</p> <p>05 : 52 x 52mm 06 : 60 x 60mm 08 : 80 x 80mm 09 : 92 x 92mm 12 : <b>119 x 119mm</b></p>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">12</div> <p>Voltage code</p> <p><b>12 : 12V</b></p>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">T</div> <p>Represents a thermally speed controlled fan.</p>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">1</div> <p>Frame thickness code</p> <p><b>1 : 38mm thick</b> 4 : 25mm thick 6 : 20mm thick 7 : 15mm thick</p>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">H</div> <p>Speed code</p> <p><b>H : High speed</b></p>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">11</div> <p>Sensor and specific specification code</p> <p>10 : With lock sensor 11 : <b>With pulse sensor</b> 12 : Sensor-less</p>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">2</div> <p>External view code</p> <p>Nil: Ribbed frame product with an external thermistor <b>1: Ribless frame product with an external thermistor</b> 2 : Ribbed frame product with a built-in thermistor 3 : Ribless frame product with a built-in thermistor</p>
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## CPU cooler

<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">109</div> <p>Represents a fan motor.</p> <p>Additional number: Used to classify the remodeling performed or for other purposes.</p> <p>P : Mold frame <b>type</b></p>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">P</div>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">44</div> <p>Heat sink dimensions code</p> <p>44 : 45 x 45mm or 44.5 x <b>44.5mm</b> 54 : 54 x 54mm or 50.8 x <b>50.8mm</b> 66 : 66 x 62mm</p>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">05</div> <p>Voltage code</p> <p><b>05 : 5V</b> 12 : 12V</p>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">H</div> <p>Speed code,</p> <p>H : High speed M : Middle speed</p>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">8</div> <p>Frame thickness code</p> <p>2 : 30mm thick 8 : <b>18mm thick</b> 9 : 10mm thick</p>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">D01</div> <p>Sensor and specific specification code</p> <p>01 : With pulse sensor 02 : Sensor-less <b>D01</b> : With lock sensor</p>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">6</div> <p>Exrernal view code</p> <p>6 : Terminal type</p>
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## Sirocco fan

<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">109</div> <p>Represents a fan motor.</p> <p>Additional number: Used to classify the remodeling performed or for other purposes.</p> <p><b>B</b> : Represents a sirocco fan.</p>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">B</div>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">F</div> <p>Frame dimensions code</p> <p><b>F : 120 x 120mm</b></p>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">12</div> <p>Voltage code</p> <p><b>12 : 12V</b> 24 : 24V</p>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">H</div> <p>Speed code</p> <p><b>H : High speed</b> M: Middle speed</p>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">A</div> <p>Sensor specification code</p> <p>A : Sensor-iess C : With a pulse sensor D : With a lock sensor</p>	<div style="border: 1px solid black; padding: 5px; width: 60px; margin: 0 auto;">2</div> <p>Frame thickness code</p> <p>2 : 32mm thick</p>
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