

Models			Standard *1			Measurement Procedure
Product Numbers			P09A0000W-A12*	P09B0000W-A12*	P09SD0000W-A12*	
Externals		[Tolerance]				
Size (W x L)	mm	±0.7	97.6 x 97.6	145 x 145	287 x 74	Caliper
(T)	mm	±0.30	2.13	2.33		Micrometer
Active Area (W x L)	mm	±0.5	81.2 x 81	128.4 x 128.4	269.8 x 58.4	Caliper
Weight	g	±10%	43	107	105	Microbalance
Operating Temperature Range*2	°C	—	5 ~ 40			
Storage Temperature Range	°C	—	-20 ~ 50			
Correlated Color Temperature	K	±15%	4,000 (White)			Integrating Sphere, Spectroradiometer(CS-2000)
Maximum Luminous Flux	lm	±15%	108	270	255	Integrating Sphere, Spectroradiometer(CS-2000)
Maximum Luminance	cd/m ²	±15%	5,300			2D Color Analyzer(UA-1000A)
Luminance Uniformity	%	—	≤20			(Standard Deviation/Average Luminance)
Color Rendering Index		±10%	85			Integrating Sphere, Spectroradiometer(CS-2000)
Chromaticity Coordinates (x , y)		±0.020	(0.387, 0.382)			2D Color Analyzer(UA-1000A)
Rated Current	A	±0.01	0.43	1.09	1.04	Digital Multimeter
Rated Voltage *3	V	—	6.8	7.1		Digital Multimeter
Energy Consumption	W	—	2.9	7.7	7.4	(Rated Current x Rated Voltage)
Luminous Efficacy	lm/w	—	37	35		(Maximum Luminous Flux)/(Energy Consumption)
Life-time *4 LT70	(L ₀ =3,000 cd/m ²)	h	30,000			
	(L ₀ =5,300 cd/m ²)	h	8,000			

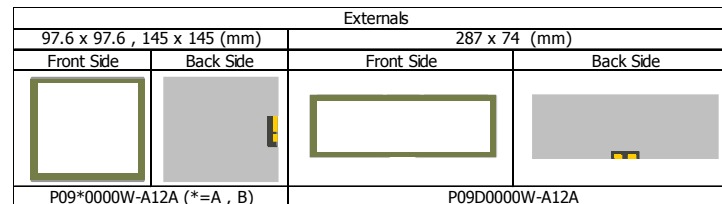
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- *1 The figures here are subject to be changed without any notice. The above performance data (except for life-time data @3,000cd/m²) are values when operating at the rated current.
- *2 Surface temperature of the driving panel must be not more than 60°C.
- *3 A constant current power source is needed since a rated current defines a rated voltage. A protection circuit to turn off electricity is needed in case of short circuit.
When driven by a constant current, if the voltage applied to the panel is less than 4V , the power should be shut off.
- *4 We accept no responsibility for product life-time since the above life-time data are typical values.

Product Number System

(ex.) P09 B 00 00 W - A 1 2 A
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

Item	Details
① Model	See the specifications above (P09)
② Size (W x L x T)	See the specifications above (B,D)
③ Administration Number	
④ Administration Number	
⑤ Color Temperature	W : White
⑥ Electrode Structure	A
⑦ Heat Sink Type	1
⑧ Out-coupling Film Type	2
⑨ Contact Pattern	A: On center of the long side without lead wire

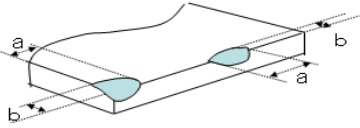
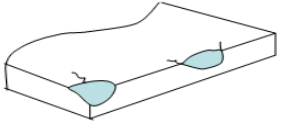


*Please contact us about contact patterns or lead wires connected to them.

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Appearance Specifications of OLED Lighting Panels (P03/P04/05/06/07/09 Series)

Items		Definitions	Criterion for Defects	
			Size ϕ , W, L, a, b (mm)	Acceptable Number
Black Spot, Particle		Within active area when illuminated. Defects observed at the distance of from 30 cm are NOT counted. $\Phi = (\text{long diameter} + \text{short diameter}) / 2$	$\phi \leq 1.0$	Good
			$1.0 < \phi \leq 2.0$	≤ 10
			$2.0 < \phi$	0
Bright Spot		Within active area when illuminated. Defects observed with naked eyes at the distance of from 30 cm are NOT counted.	—	Nothing
Scratches		Within active area. Defects observed at the distance of from 30 cm are NOT counted.	$W \leq 1.0$ and $L \leq 10.0$	Good
			$1.0 < W \leq 1.5$ and $10.0 < L \leq 20.0$	≤ 5
			$W > 1.5$ and $L > 20.0$	0
Bubble		Within active area. Defects observed with naked eyes at the distance of from 30 cm are NOT counted. $\Phi = (\text{long diameter} + \text{short diameter}) / 2$	$\phi \leq 1.0$	Good
			$1.0 < \phi \leq 2.0$	≤ 10
			$2.0 < \phi$	0
Chip, Break	Glass Edges		$a \leq 20.0$ and $b \leq 2.0$	Good
	Glass Corners		$a > 20.0$ or $b > 2.0$	0
			$a \leq 6.0$ and $b \leq 6.0$	Good
			$a > 6.0$ or $b > 6.0$	0
Chip with Crack		 Defects observed at the distance of from 30 cm are NOT counted.	—	Nothing

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