

Specification

CMW-FCC-CO1B

Disinfection Module Solution

Specification

CMW-FCC-CO1B



Product Brief

Description

• This module is designed for disinfection.

Features and Benefits

- UVC LED
- Low thermal resistance
- Simple BOM
- Miniaturization
- Lead Free Product
- Waterproof module (front only)

Key Applications

Disinfection

Table 1. Product

Madal	Input Current	Φο Γ	Wp [nm]			
Model	[mA]	Фе [mW]	MIN	ТҮР	МАХ	Remark
CMW-FCC-CO1B	100	10	270	275	280	Constant current



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Part List

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Performance Characteristics

Table 2. Electro Optical Characteristics at 100mA (Constant Current)(Ta=25°C RH=30%)

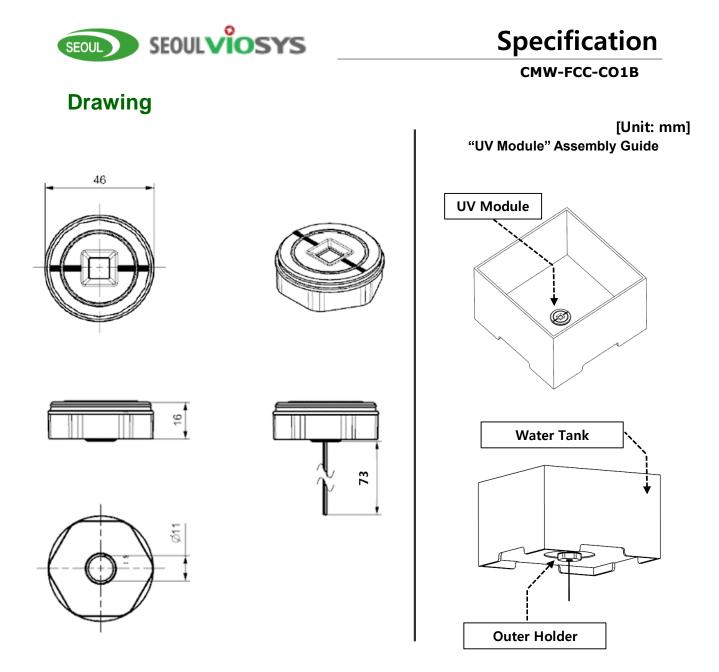
Parameter`	Symbol		11		
Parameter	Symbol	Min.	Тур.	Max.	Unit
Peak wavelength ^[1]	λр	270	275	280	nm
Forward Voltage ^[5]	V _F	5	6	8	V
Power Consumption	P _d ^[2]	0.5	0.6	0.8	W
Radiant Flux ^[3]	Фе ^[4]	8.0	10.0		mW

Notes :

- [1] Peak Wavelength Measurement tolerance : \pm 3nm
- [2] P_d can be changed by surrounding temperature and current.
- [3] Radiant Flux Measurement tolerance : \pm 10%
- [4] $\Phi_{\rm e}$ is the Total Radiant Flux as measured with an integrated sphere.
- [5] Forward Voltage Measurement tolerance : $\pm 3\%$

Table 3. Absolute Maximum Ratings

Parameter	Symbol	Unit	Value
Operating Temperature	Topr	°C	-20 ~ +40
Storage Temperature	Tstg	°C	-20 ~ +60



Notes :

- Module Dimensions of the indicated maximum value, and to allow a tolerance : ±0.5 [mm]
- Wire Dimensions of the indicated maximum value, and to allow a tolerance : ±5 [mm]
- "Outer Holder" When assembly, the torque varies depending on the material and thickness of the product. Test and use it to suit your environment.

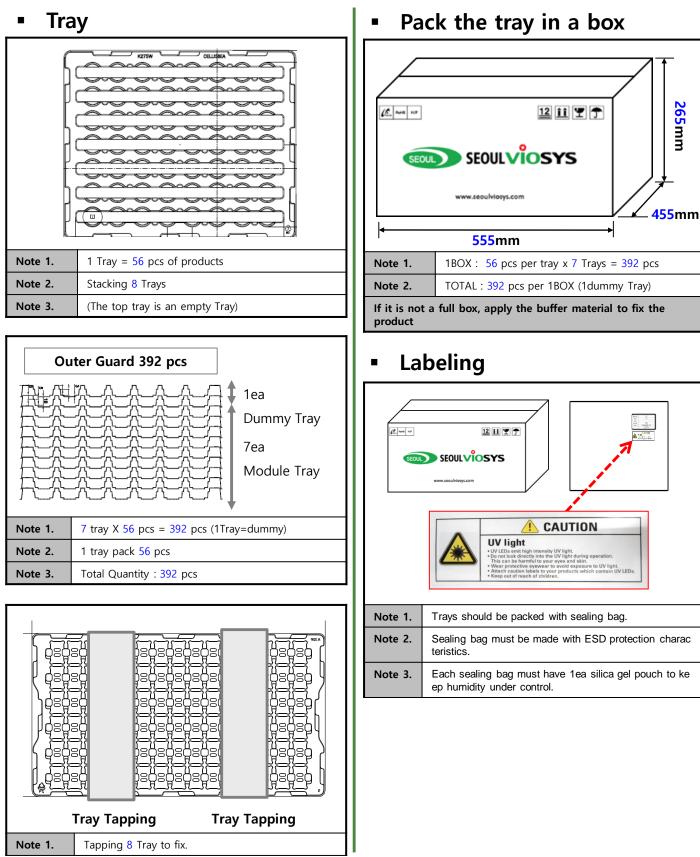
[SVC does not guarantee about assembly failure for Outer Holder.]



Packing

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Label Information

		Model	No.				
		Тур	е				
		Quan	tity				
		Lot N	No.				
		SEOUL		SEOUL VIOSYS CO.,LTD.			
	_)			
	(1)	It represe selection.	It represent module part number. Refer to the page1 for part number selection.				
	(2)	YYMDD	YYMDD Packing Date				
		YY	YY last 2 digits of year(ex – 2018 \rightarrow 18)				
Reference		M Oct-A, Nov-B, Dec-C(1digits)					
Reference			Date(2digits)				
		Х	Initial of Manufacturer(1digits)				
		XXXX	Sealing Pack No(4digits)				
		-	dash				
		XXXXXXX	XXXXX SVC Code(7digits)				
Note	(1)	It is attached to the top right corner of the box.					

Optional

TOTAL Quantity		(
SEOUL VIOSYS CO.,LTD.			XXX
		Ľ	SEOUL VIOSYS CO.,LTD.
Note (1) It is attached to the top right corner of the box.	Noto	(1)	



Precaution for Use

1) Storage

- To avoid moisture penetration, we recommend storing UV-Module in a dry box with a desiccant. The recommended temperature and Relative humidity are between 5℃ and 30℃ and below 50% respectively.
- UV-Module must be stored properly to maintain the device. If the UV-Module is stored for 3 months or more after being shipped from SVC, a sealed container with a nitrogen atmosphere should be used for storage.
- Replace the remained UV-Module into the moisture-proof bag and reseal the bag after work to avoid those UV-Module being exposed to moisture. Prolonged exposure to moisture can adversely affect the proper functioning of the UV-Module.

2) Handling Precautions

- VOCs (Volatile organic compounds) emitted from materials used in the construction of fixtures can
 penetrate products and discolor them when exposed to heat and photonic energy. The result can be a
 significant loss of light output from the fixture. Knowledge of the properties of the materials selected to
 be used in the construction of fixtures can help prevent these issues.
- In case of attaching UV-Module, do not use adhesives that outgas organic vapor.
- Please do not use(or storage) together with the materials containing Sulfur.
- Do not use inflammable material nearby the products.
- Do not touch the products with wet hand
- Do not fix or remodel the products.
- Do not drop the machine, or give strong impact on the products.
- The UV-Module is encapsulated with special material for the highest flux efficiency. So it needs to be handled carefully as below
 - Avoid touching quartz glass parts especially with sharp tools such as Tweezers
 - Avoid leaving fingerprints cover parts.
 - UV-Module will attract dust so use covered containers for storage.
 - It is not recommend to cover the UV-Module with other materials (epoxy, urethane, etc)

3) Safety for eyes and skin

• The Products emit high intensity ultraviolet light which can make your eyes and skin harmful, So do not look directly into the UV light and wear protective equipment during operation.

4) Cleaning

• After assembly the product, empty the water and then wipe the UV-Module with a dry towel.



Precaution for Use

5) Others

• Be sure to turn On / Off after module is connected.

When connecting the module in the power on state, LED can be damaged by the influence of the inrush voltage / current.

- The driving circuit must be designed to allow forward voltage or current only when it is ON or OFF. If the reverse voltage is applied to UV-Module, migration can be generated resulting in LED damage.
- Do not handle this product with acid or sulfur material in sealed space
- Please handle using equipment that prevents static electricity.
- Do not touch unless ESD protection is used.
- Ionizer, grounding and keeping appropriate humidity are necessary for work environment.
- The appearance and specifications of the product may be modified for improvement without notice

