

UVC LED MODULES

CXST®LM

CXST LM (LED Modules) are Vdc Modules for users to quickly add for various application of disinfection (surface or air treatment). CXST LM Series modules are using high-performance UVC LEDs which is the range of 250-285nm.

CXST also is capable of providing customizable solutions for different applications accordingly.





MERCURY FREE HEALTHY & SAFETY **

HIGH PERFORMANCE TOP LEVEL

Inorganic encapsultation,

Certificate approved,

Internation crystal chip.

EFFECTIVENESS 260-280NM

5-132mW/LED is optional, Integrated solution, Easy installation. THE STATE OF THE S

ONE-STOP SERVICE CUSTOMIZATION

Professional suggestions, Customizable solutions, Trustable & honest partner.

Using LED light source, 100% environmental materials, Mercury-free, no worries once broken.

Product Nomenclature

Part Number: ST-POB20

Order Code	Dimen	sions	Output Voltage	LED OTY	Radiation Output	Output Current
Order Code	Diameter	Thickness	Output voitage	LEDQII	Radiation Output	Output Current
W1V5C1	20mm	2.0mm	5V	1PCS	15-25mW	120mA
W05V9C1	20mm	2.0mm	9V	1PCS	6-10mW	60mA
W1V6C1	20mm	2.0mm	6V	1PCS	18-28mW	150mA
W2V36C4	20mm	2.0mm	36V	4PCS	20-35mW	60mA
W2V18C4	20mm	2.0mm	18V	4PCS	20-35mW	120mA
W4V24C4	20mm	2.0mm	24V	4PCS	80-112mW	150mA
W4V12C4	20mm	2.0mm	12V	4PCS	80-112mW	300mA

Part Number: ST-POB6319

Order Code		Dimen	sions	Output Voltage	I ED OTV	Radiation Output	Output Current
Order Code	Length	Width	Thickness	Output voitage	LED Q11	Radiation Output	Output Current
W3V5C5	63mm	19mm	1.0mm	5V	5PCS	30-50mW	500mA

Part Number: ST-POB14520

Order Code		Dimen	Dimensions Output Voltage LED QTY Rad		Rediction Output	Output Current	
Order Code	Length	Width	Thickness	Output voitage	LEDQII	Radiation Output	Output Current
W3V12C5	145mm	20mm	2.0mm	12V	5PCS	25-40mW	300mA
W6V12C6	145mm	20mm	2.0mm	12V	6PCS	100-150mW	420mA

Part Number: ST-POB30020

Order Code		Dimer	Dimensions Output Voltage LED QTY Radiation Ou		Rediction Output	Output Current	
Order Code	Length	Width	Thickness	Output Voltage	LEDQII	Radiation Output	Output Current
W5V12C10	300mm	20mm	2.0mm	12V	10PCS	42-70mW	600mA
W12V12C12	300mm	20mm	2.0mm	12V	12PCS	195-292mW	850mA

Part Number: ST-POB25015

Order Code		Dimen	sions	Output Voltage	LED OTY	Radiation Output	Output Current	
Order Code	Length	Width	Thickness	Output Voltage	LEDQII	Radiation Output	Output Current	
W18V12C18	250mm	15mm	2.0mm	12V	18PCS	298-380mW	1260mA	

Part Number: ST-POB8015

Order Code		Dimen	sions	Output Voltage	LEDOTY	Padiation Output	Output Current
Order Code	Length	Width	Thickness	Output Voltage	oltage LED QTY	Radiation Output	Output Current
W8V24C8	80mm	15mm	2.0mm	24V	8PCS	130-168mW	280mA

Part Number: ST-POB16012

Order Code Dimensions Output Voltage LED QTY Radiation O	Padiation Output	Output Comment						
Order Code	Length	Width	Thickness	Output voltage	LEDQII	Radiation Output	Output Current	
W24V24C24	160mm	12mm	2.0mm	24V	24PCS	348-480mW	840mA	

Electrical & Physical Characteristics

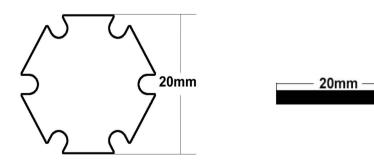
Order Code	Characteristic	Unit	Min.	Typical	Max.	Note	Photo
	Power	W	-	0.6	-		
	Voltage	V	3.7	5	-		
	Current	mA			120		CXST® C2
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Radiation Power	mW	15	-	25		*
W1V5C1	Wavelength	nm	260	275	285		2 2
	Working Temperature	00	5	-	50		STPOB20
	Storage Temperature	°C	-10	-	80		S1P0B20
	Relative Humidity	%	40	-	75		
Order Code	Characteristic	Unit	Min.	Typical	Max.	Note	Photo
	Power	W	0.3	0.5	0.75	UVC	
	1 01101	W	-	0.2	-	UVA	
	Voltage	V	-	9	11		
	Current	mA	-	-	60		
W05V9C1	Radiation Power	mW	6	8	10	UVC	
***********	Wavelength	nm	390	395	405	UVA	
	wavelengui	11111	260	275	285	UVC	
	Working Temperature	°C	5	-	50		
	Storage Temperature	C	-10	-	80		
	Relative Humidity	%	40	-	75		
Order Code	Characteristic	Unit	Min.	Typical	Max.	Note	Photo
	Power	VV	0.6	1	1.05		
	Power Voltage	W V	0.6 5	6	1.05 7		
	Voltage	V	0.6 5	6	7		cxst*
	Voltage Current	V mA	5	6	7 150		CEST*
W1V6C1	Voltage Current Radiation Power	V mA mW	5 18	6 23	7 150 28		CCST*
W1V6C1	Voltage Current Radiation Power Wavelength	V mA mW nm	5 18 260	6	7 150 28 285		CST*
W1V6C1	Voltage Current Radiation Power Wavelength Working Temperature	V mA mW	5 18 260 5	6 23 275	7 150 28 285 50		CXST* * ST-FOR20
W1V6C1	Voltage Current Radiation Power Wavelength Working Temperature Storage Temperature	V mA mW nm	5 18 260 5 -10	6 23 275	7 150 28 285 50 80		CXST* + D ST-POR20
W1V6C1	Voltage Current Radiation Power Wavelength Working Temperature	V mA mW nm	5 18 260 5	6 23 275	7 150 28 285 50		CNST* ST-POB20
W1V6C1 Order Code	Voltage Current Radiation Power Wavelength Working Temperature Storage Temperature	V mA mW nm	5 18 260 5 -10	6 23 275	7 150 28 285 50 80	Note	CXST* STEPORED Photo
	Voltage Current Radiation Power Wavelength Working Temperature Storage Temperature Relative Humidity Characteristic	V mA mW nm °C	5 18 260 5 -10 40	6 23 275 - - -	7 150 28 285 50 80 75	Note UVC	_
	Voltage Current Radiation Power Wavelength Working Temperature Storage Temperature Relative Humidity	V mA mW nm °C %	5 18 260 5 -10 40 Min.	6 23 275 - - - Typical	7 150 28 285 50 80 75		_
	Voltage Current Radiation Power Wavelength Working Temperature Storage Temperature Relative Humidity Characteristic	V mA mW nm °C % Unit W	5 18 260 5 -10 40 Min. 1.2	6 23 275 Typical 2	7 150 28 285 50 80 75 Max.	UVC	_
	Voltage Current Radiation Power Wavelength Working Temperature Storage Temperature Relative Humidity Characteristic Power	V mA mW nm °C % Unit W W	5 18 260 5 -10 40 Min. 1.2	6 23 275 Typical 2 0.8	7 150 28 285 50 80 75 Max.	UVC	_
Order Code	Voltage Current Radiation Power Wavelength Working Temperature Storage Temperature Relative Humidity Characteristic Power Voltage	V mA mW nm °C % Unit W V	5 18 260 5 -10 40 Min. 1.2	6 23 275 Typical 2 0.8	7 150 28 285 50 80 75 Max. - - 40	UVC	_
	Voltage Current Radiation Power Wavelength Working Temperature Storage Temperature Relative Humidity Characteristic Power Voltage Current Radiation Power	V mA mW nm °C % Unit W V mA mW	5 18 260 5 -10 40 Min. 1.2	6 23 275 Typical 2 0.8 36	7 150 28 285 50 80 75 Max. - - 40 60	UVC UVA	_
Order Code	Voltage Current Radiation Power Wavelength Working Temperature Storage Temperature Relative Humidity Characteristic Power Voltage Current	V mA mW nm °C % Unit W V mA	5 18 260 5 -10 40 Min. 1.2	6 23 275 Typical 2 0.8 36	7 150 28 285 50 80 75 Max. - - 40 60 35	UVC UVA	_
Order Code	Voltage Current Radiation Power Wavelength Working Temperature Storage Temperature Relative Humidity Characteristic Power Voltage Current Radiation Power	V mA mW nm °C % Unit W V mA mW nm	5 18 260 5 -10 40 Min. 1.2 390	6 23 275 Typical 2 0.8 36 25 395	7 150 28 285 50 80 75 Max. - - 40 60 35 405	UVC UVA UVC UVA	_
Order Code	Voltage Current Radiation Power Wavelength Working Temperature Storage Temperature Relative Humidity Characteristic Power Voltage Current Radiation Power Wavelength	V mA mW nm °C % Unit W V mA mW	5 18 260 5 -10 40 Min. 1.2 390 260	6 23 275 - - Typical 2 0.8 36 25 395 275	7 150 28 285 50 80 75 Max 40 60 35 405 285	UVC UVA UVC UVA	_

Order Code	Characteristic	Unit	Min.	Typical	Max.	Note
	Power	W	1.2	2	-	UVC
	rowei	W	-	0.8	-	UVA
	Voltage	V	-	18	20	
	Current	mA			120	
W2V18C4	Radiation Power	mW	-	25	35	UVC
W2V10C4	Wavelength	nm	390	395	405	UVA
	vvavelengin	nm	260	275	285	UVC
	Working Temperature	°C	5	-	50	
	Storage Temperature	C	-10	-	80	
	Relative Humidity	%	40	-	75	

Order Code	Characteristic	Unit	Min.	Typical	Max.	Note	Photo
	Power	W	-	4	-		
	Voltage	V	-	24	26		
	Current	mA			150		CXST [®]
W4V24C4	Radiation Power	mW	-	80	112		√ + ■ + ■
VV4 V24C4	Wavelength	nm	260	275	285		* + 1 + 1
	Working Temperature	°C	5	-	50		ST-POB20
	Storage Temperature	-C	-10	-	80		
	Relative Humidity	%	40	-	75		

Order Code	Characteristic	Unit	Min.	Typical	Max.	Note	Photo
	Power	W	-	4	-		
	Voltage	V	-	12	13V		
	Current	mA			300		CXST®
W4V12C4	Radiation Power	mW	-	80	112		
VV4 V 12 C4	Wavelength	nm	260	275	285		
	Working Temperature	°C	5	-	50		ST-POB20
	Storage Temperature	C	-10	-	80		S1-FOB20
	Relative Humidity	%	40	-	75		

Dimensions



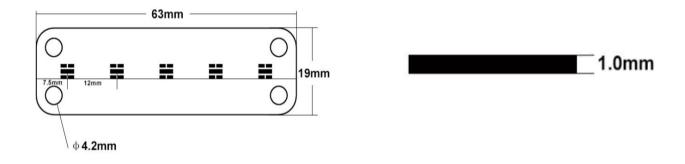
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___ 2.0mm

Electrical & Physical Characteristics

Order Code	Characteristic	Unit	Min.	Typical	Max.	Note	Photo
	Power	W	-	2.5	-	UVC	
	Power	W	-	0.4	-	UVA	
	Voltage	V	3.7	5	-		
	Current	mA			500		
W3V5C5	Radiation Power	mW	-	30	50	UVC	
VV3V3C3	Wavelength	nm	390	395	405	UVA	
	vvavelerigiri	11111	260	275	285	UVC	
	Working Temperature	°C	5	-	50		
	Storage Temperature	C	-10	-	80		
	Relative Humidity	%	40	-	75		

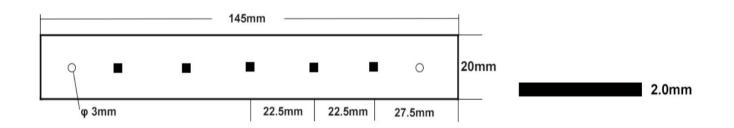
Dimensions



Electrical & Physical Characteristics

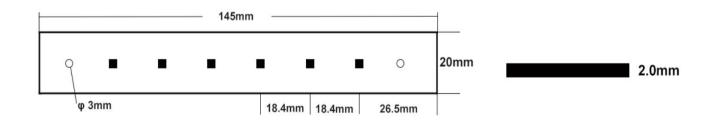
Order Code	Characteristic	Unit	Min.	Typical	Max.	Note	Photo
	Power	W	-	2.5	-	UVC	
		W	-	1	-	UVA	A
	Voltage	V	11.2	12	12.8		The state of the s
	Current	mA	-	300	-		
	Radiation Power	mW	-	25	40	UVC	
W3V12C5	Wavelength	nm	390	395	405	UVA	
			260	275	285	UVC	
	Working Temperature	°C	5	-	50		
	Storage Temperature		-10	-	80		To the second se
	Relative Humidity	%	40	-	75		

Dimensions



Order Code	Characteristic	Unit	Min.	Typical	Max.	Note	Photo
	Power	W	-	6	-		A
	Voltage	V	11.2	12	14		
	Current	mA			420		
W6\/4006	Radiation Power	mW	-	108	150		9.5
W6V12C6	Wavelength	nm	260	275	285		
	Working Temperature	°C	5	-	50		
	Storage Temperature	C	-10	-	80		
	Relative Humidity	%	40	-	75		The state of the s

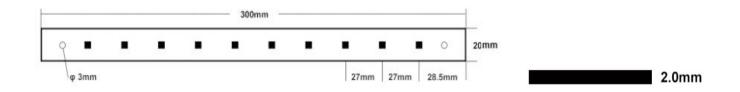
Dimensions



Electrical & Physical Characteristics

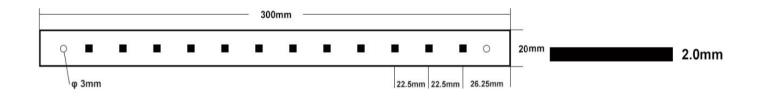
Order Code	Characteristic	Unit	Min.	Typical	Max.	Note	Photo
	Power	W	-	5	-	UVC	
	Fowei	W	-	2	-	UVA	
	Voltage	V	11.2	12	12.8		
	Current	mA	-	600	-		
W5V12C10	Radiation Power	mW	-	42	70	UVC	D ₂
VV3V 12C 10	Wavelength	nm	390	395	405	UVA	10.
		nm	260	275	285	UVC	
	Working Temperature	°C	5	-	50		
	Storage Temperature		-10	-	80		
	Relative Humidity	%	40	-	75		

Dimensions



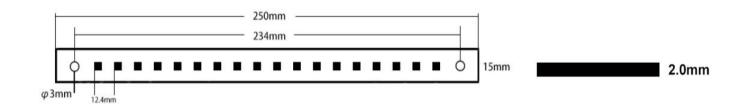
Order Code	Characteristic	Unit	Min.	Typical	Max.	Note	Photo
	Power	W	-	12	-		
	Voltage	V	11.2	12	14		
	Current	mA			850		
W12V12C12	Radiation Power	mW	-	195	292		A.
W 12V 12C 12	Wavelength	nm	260	275	285		21
	Working Temperature	°C	5	-	50		20
	Storage Temperature	C	-10	-	80		0.0
	Relative Humidity	%	40	-	75		

Dimensions



Characteristic	Unit	Min.	Typical	Max.	Note	Photo
Power	W	-	18	=		A
Voltage	V	11.2	12	14		
Current	mA			1260		
Radiation Power	mW	298	-	380		
Wavelength	nm	260	275	285		
Working Temperature	9C	5	-	50		
Storage Temperature	-C	-10	-	80		
Relative Humidity	%	40	-	75		
	Power Voltage Current Radiation Power Wavelength Vorking Temperature	Power W Voltage V Current mA Radiation Power mW Wavelength nm Vorking Temperature Storage Temperature	Power W - Voltage V 11.2 Current mA Radiation Power mW 298 Wavelength nm 260 Vorking Temperature 5 Storage Temperature -10	Power W - 18 Voltage V 11.2 12 Current mA - - Radiation Power mW 298 - Wavelength nm 260 275 Vorking Temperature 5 - Storage Temperature -10 -	Power W - 18 - Voltage V 11.2 12 14 Current mA 1260 Radiation Power mW 298 - 380 Wavelength nm 260 275 285 Vorking Temperature 5 - 50 Storage Temperature -10 - 80	Power W - 18 - Voltage V 11.2 12 14 Current mA 1260 Radiation Power mW 298 - 380 Wavelength nm 260 275 285 Vorking Temperature 5 - 50 Storage Temperature -10 - 80

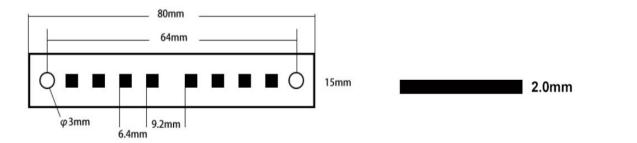
Dimensions



ST-POB8015

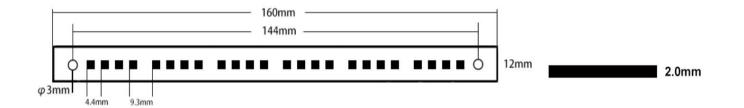
Order Code	Characteristic	Unit	Min.	Typical	Max.	Note	Photo
	Power	W	-	8	-		
	Voltage	V	23.2	24	26		X
	Current	mA			280		
14/01/04/00	Radiation Power	mW	130	-	168		CAST OF THE STATE
W8V24C8	Wavelength	nm	260	275	285		
	Working Temperature	00	5	-	50		S. 4075 C. 10 10 10 10 10 10 10 10 10 10 10 10 10
	Storage Temperature	°C	-10	-	80		
	Relative Humidity	%	40	-	75		V

Dimensions



Order Code	Characteristic	Unit	Min.	Typical	Max.	Note	Photo
	Power	W	-	24	-		
	Voltage	V	23.2	24	26		
	Current	mA			840		
W24V24C24	Radiation Power	mW	348	-	480		
VV24V24G24	Wavelength	nm	260	275	285		
	Working Temperature	°C	5	-	50		
	Storage Temperature	J.	-10	-	80		
	Relative Humidity	%	40	-	75		

Dimensions



Handing Precautions

☑ LEDs are ESD(electrostatic discharge) sensitive, static electricity and surge voltages seriously damage UV LEDs and cn result in product failure.

Ensure that tool, jigs and machines being used are properly grounded,

LED mounting equipment should included protection against voltage srge,

Use proper ESD protection, including grounded wrist straps, ESD footwear and clothes.

- ☑ Do not use adhesives that outgas organic vapor
- ☑ Dropping the product may cause damagec
- ☑ If handing the product with tweezers, use only the side of the package and be careful not to apply excessive force
- Proper thermal management is required to prevent warpage and damage to the modules and its components Do not apply mechanical force or excess vibration during handing or normal operation.

Eye Safety Guidelines

During operation, the LED emits high intensity ultraviolet (UV) light, which is harmful to skin and eyes.UV light is hazardous to skin and may cause cancer, Please avoid exposure to UV light when LED is operational. Precautions must be taken to avoid looking directly at the UV light without the use of UV light protective glasses.

Do not look directly at the front of the LED or at the LED's lens when LED is operational.

Attach warning labels on prodcuts/systems that use UV LEDs.

DISCLAIMER

The specifications, characteristics, and technical data presented in this datasheet are subject to change without prior notice. It is recommended that the most updated specifications, characristics, and technical data be used in your application.

The information in this document had been compiled from reference matrials and ther sources and tested via equipment believed to be reliable, and given in good faith. No warranty, either expressed or impiled, is made, however, to the accuracy and completeness of the information, nor is any responsibility assumed orimpiled for any loss or damage resulting from inaccuracies or omissions. Each user bears full responsibility for making their own determination as to the suitability of CXST products, recommendation or advice for its own particular use. CXST makes no warranty or gaurantee, express or impiled, as to results obtained in end-use, nor of any design incorporating its products, recommendation or advice.

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