

## TEST REPORT



REPORT NO.: CTNT221101002(A1)

Product name : PL detection module

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Model No. : 10HPMD01AA

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Applicant : Wave-Partical (Beijing) Opto-electronic Technology Ltd.

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Test procedure : Type Test

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Shenzhen Zhongwei Testing Technology Co., Ltd.



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E-mail: admin@cnt-cert.com

Web: www.cnt-cert.com



**TEST REPORT**  
**IEC 60825-1**  
**Safety of laser products –Part 1:**  
**Equipment classification and requirements**

**Report Number.....:** CTNT221101002(A1)

**Date of issue.....:** October 29, 2024

**Name of Testing Laboratory**  
**preparing the Report.....:** Shenzhen Zhongwei Testing Technology Co., Ltd.  
Room 1A106, 1/F., No.109, Lijia Road, Henggang, Henggang Street,  
Longgang District, Shenzhen, Guangdong, China  
Tel: 086-13662574496  
E-mail: admin@cnt-cert.com  
Web: www.cnt-cert.com

**Applicant's name.....:** Wave-Partical (Beijing) Opto-electronic Technology Ltd.

**Address.....:** B202 Huari Building, Keyuan Road 3#,Daxing District, Beijing.

**Manufacturer's name.....:** Wave-Partical (Beijing) Opto-electronic Technology Ltd.

**Address.....:** B202 Huari Building, Keyuan Road 3#,Daxing District, Beijing.

**Test specification:**

**Standard.....:** IEC 60825-1: 2014

**Test procedure.....:** Type Test

**Non-standard test method.....:** N/A

**Test Report Form No.....:** IEC60825\_1G

**Test Report Form(s) Originator.....:** OVE

**Master TRF.....:** Dated 2021-10-05

**General disclaimer:**

The test results presented in this report relate only to the object tested.

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The authenticity of this Test Report and its contents can be verified by contacting the CTNT, responsible for this Test Report.

**Test item description.....:** PL detection module

**Trademark.....:** N/A

**Device model.....:** 10HPMD01AA

**Internal laser model.....:** S0-P81W-KDX-FKC

**Ratings.....:** 24V = 12A

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<b>Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):</b>		
<b>Laboratory Name</b>	Shenzhen Zhongwei Testing Technology Co., Ltd.	
<b>Testing location/ address.....:</b>	Room 1A106, 1/F., No.109, Lijia Road, Henggang, Henggang Street, Longgang District, Shenzhen, Guangdong, China	
<b>Tested by (Test Engineer).....:</b>	East Zheng	<i>East Zheng</i>
<b>Reviewed by (Supervisor).....:</b>	Oliver Long	<i>Oliver Long</i>
<b>Approved by (Chief Engineer).....:</b>	Flight Lee	<i>Flight Lee</i>
<b>List of Attachments (including a total number of pages in each attachment)</b> - Test data graph, Photo document		
<b>Summary of testing:</b>		
<b>Tests performed (name of test and test clause):</b>  Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. According to the test of IEC 60825-1 Safety of laser products – Part 1 Equipment classification and requirements.  <b>This product complied with the requirements of Class 1.</b>	<b>Testing location:</b> Shenzhen Zhongwei Testing Technology Co., Ltd. Room 1A106, 1/F., No.109, Lijia Road, Henggang, Henggang Street, Longgang District, Shenzhen, Guangdong, China Tel: 086-755-28680489 E-mail: admin@cntnt-cert.com Web: www.cntnt-cert.com	
<b>Test item particulars.....:</b>		
<b>Classification of installation and use:</b>	transportable / portable / stationary / mobile/ fixed / permanently installed / hand-held	
<b>Supply Connection.....:</b>	internally powered / permanently installed / appliance coupler / non-detachable-cord/detachable-cord	
<b>laser Class as defined in 3.44 and 3.18 through 3.24 of IEC 60825-1:2014.....:</b>	Class 1, 1C, 1M, 2, 2M, 3R, 3B, or 4	
<b>laser output (power or energy).....:</b>	See below	
<b>Accessories and detachable parts included in the evaluation .....</b>	N/A	

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