

Technical Report No.: 68140260379901

Date: 2026-07-10

Client: Name: AOK Industrial Company Limited
Address: 1/F of 1#Building, East Block of 3/F of Building 1, And 2/F of Building 4, ST George's Science and Technology Industrial Park, Northside of Xinyu Road, Xiangshan Community, Xinqiao Street Baoan District, 518000 Shenzhen, Guangdong, PEOPLE'S REPUBLIC OF CHINA

Manufacturer: Name: Same as client
Address: Same as client

Factory: Name: Same as client
Address: Same as client

Test object: Product: Luminaires for road and street lighting (LED Street Light)

Model: AOK-ZWiLH(S)-NV-A5-BB-XXYY-BN-P;
AOK-ZWiLH(M)-NV-A5-BB-XXYY-BN-P;
AOK-ZWiLH(L)-NV-A5-BB-XXYY-BN-P;
AOK-ZWiLH(XL)-NV-A5-BB-XXYY-BN-P;
AOK-ZWiLH(XXL)-NV-A5-BB-XXYY-BN-P;
AOK-ZWiLH(S)-NV-L2-BB-XXYY-BN-P;
AOK-ZWiLH(M)-NV-L2-BB-XXYY-BN-P;
AOK-ZWiLH(L)-NV-L2-BB-XXYY-BN-P;
AOK-ZWiLH(XL)-NV-L2-BB-XXYY-BN-P;
AOK-ZWiLH(XXL)-NV-L2-BB-XXYY-BN-P;
AOK-ZWiLH(S)-NV-L3-BB-XXYY-BN-P;
AOK-ZWiLH(M)-NV-L3-BB-XXYY-BN-P;
AOK-ZWiLH(L)-NV-L3-BB-XXYY-BN-P;
(‘Z’ stands for Rated Power, can be 10-300, in steps of 1W, e.g. 10=10W, 300=300W;
‘BB’ stands for whether with NEMA socket & short-circuit cap and Zhaga socket & sealing cap, can be 00, PH and SN, 00=without NEMA socket & short-circuit cap and Zhaga socket & sealing cap, PH=with NEMA socket & short-circuit cap, SN=with Zhaga socket & sealing cap;
‘XX’ stands for CCT of LED, can be 27, 30, 35, 40, 50, 57 and 65, 27=2700K, 30=3000K, 35=3500K, 40=4000K, 50=5000K, 57=5700K, 65=6500K;
‘YY’ stands for CRI (color rendering index), can be 70, 80 and 90, 70=Ra: 70, 80=Ra: 80, 90=Ra: 90)

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TÜV SÜD Certification and Testing (China) Co., Ltd.
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Building 6, 12 & 13, Zhiheng Wisdomland Business Park,
Guankou Erlu, Nantou, Nanshan District, Shenzhen,
Guangdong 518052, China
Telephone : +86 755 8828 6998
Telefax : +86 755 8828 5299

Trade mark:



Test specification: Mechanical strength test (IK09) according to IEC 62262:2002, IEC 62262:2002/AMD1:2021, EN 62262:2002+A1:2021

Purpose of examination:

- Testing and evaluation according to the test specification

Test result: The test results show that the presented products are in compliance with the above listed test specifications.

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1. Description of the test object

1.1 Picture(s)

See 'Appendix 2 Photo document' for details

1.2 Function

Manufacturer's specification for intended use:
Fixed for outdoor use only.

1.3 Consideration of the foreseeable use

- ☐ Not applicable
- ☒ Covered through the applied standard
- ☐ Covered by the following comment*
- ☐ Covered by attached risk analysis

*

1.4 Technical Data

Luminaires for road and street lighting (LED Street Light)

Rated Input : 220-240VAC; 50/60Hz
Rated Power : See 'Appendix 1 Model list' for details
Degree of Protection : IP66

2. Order

2.1 Date of Purchase Order, Customer's Reference

2026-03-30

2.2 Test Sample(s)

- Reception date(s): 2026-03-30
- Location(s) of reception: TÜV SÜD Certification and Testing (China) Co., Ltd.
Shenzhen Branch
Building 6, 12 & 13, Zhiheng Wisdomland Business
Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong 518052, China
- Condition of test sample(s): Good

2.3 Testing

- Testing date(s): 2026-03-30 to 2026-07-10

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Guangdong 518052, China
Telephone : +86 755 8828 6998
Telefax : +86 755 8828 5299

- Location(s) of testing: TÜV SÜD Certification and Testing (China) Co., Ltd.
Shenzhen Branch
Building 6, 12 & 13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong 518052, China

2.4 Points of Non-Compliance or Exceptions of the Test Procedure

- None

3. Test Results

- Decision rule according to IEC Guide 115:2023, clause 4.3.3 Simple acceptance was applied.

3.1 Positive Test Results

Mechanical strength test (IK09) for glass cover, short-circuit cap, sealing cap and metal enclosure, as below:

IEC/EN 62262			
Clause	Requirement + Test	Result - Remark	Verdict
5	GENERAL TEST REQUIREMENTS		—
5.1	Ambient temperature		—
	Air pressure		—
5.3	Product standard		—
	EN 60598-1:2015+A1:2018		—
	Test equipment/ striking element used (IEC 60068-2-75)	Vertical hammer	P
	Number of samples tested (TR 62696)	1	P
	Specially prepared luminaire	N	P
	Condition of mounting (set-up) (ceiling mounted, floor, vertical wall mounted)	Floor	P
	Appliance energised		N/A
	Number of impacts (TR 62696)	3	P
	CLASSIFICATION OF LUMINAIRES		—
	IK 01/0.14J		N/A
	IK 02/0.2J		N/A

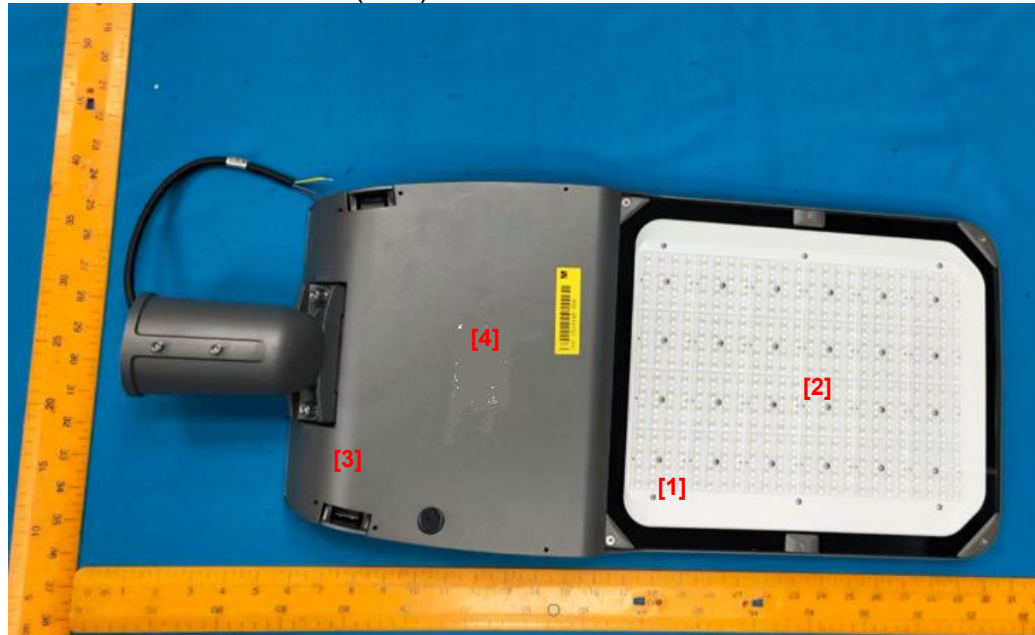
	IK 03/0.35J		N/A
	IK 04/0.5J		N/A
	IK 05/0.7J		N/A
	IK 06/1J		N/A
	IK 07/2J		N/A
	IK 08/5J		N/A
	IK 09/10J		P
	IK 10/20J		N/A
	IK 11/50J		N/A
	Degree of protection.....: IP66		—
4	Condition of acceptance		—
4.1	Safety of the luminaire maintained as 4.13 of EN 60598-1?		P
	IP rating retested		P
	Fixing to the mounting surface remain safe		N/A
	No safety critical damage enclosure / optics		P
	No parts detached		P
4.2	Protection of light source still provided		P
	Basic functioning maintained		P

Picture appliance before test with point of impact verified

Test part	Impact point	Impact energy (J)	Test result	Verdict
Glass cover	[1]; [2]	10	No damage	Pass
Metal enclosure	[3]; [4]; [5]; [6]; [7]	10	No damage	Pass
S/C cap	[8]	10	No damage	Pass
Sealing cap	[9]	10	No damage	Pass

Impact point view

Test model AOK-300WiLH(XXL)-NV-A5-00-6570-BN-P



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Test model AOK-300WiLH(XXL)-NV-A5-PH-6570-BN-P



Test model AOK-300WiLH(XXL)-NV-A5-SN-6570-BN-P



3.2 Points of Non-Compliance according to the test specification

- None

4. Test History

- None

5. Remarks

All models have similar construction.

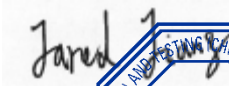
Models AOK-300WiLH(XXL)-NV-A5-00-6570-BN-P, AOK-300WiLH(XXL)-NV-A5-PH-6570-BN-P and AOK-300WiLH(XXL)-NV-A5-SN-6570-BN-P were chosen as representative models to perform this test.

6. Summary

The test specifications are met.

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch TÜV SÜD Group

Tested by:


Jared Jiang, Project Handler

Approved by:


Sunny Yan, Designated Reviewer



Appendix 1 Model list:

Model No.	'Z' can be 10 to 300 which stands for Rated Power 10W to 300W, in steps of 1W	Rated Power (W)	LED driver			LED type	Size (mm)	Weight (kg)	Max. projected area (m ²)
AOK-ZWiLH(S)-NV-A5-BB-XXYY-BN-P	Z=10 to 30	10-30	EUM-030S050DG	SS-40NH-V300BB	SS-40PA-H80F	TYF 5050	545*200*97	3,0	0,091
	Z=31 to 40	31-40	EUM-050S090DG	SS-40NH-V300BB	SS-40PA-H80F				
	Z=41 to 50	41-50	EUM-050S090DG	SS-60NH-V300BB or SS-100NH-V300BHB	SS-60PA-H120F				
	Z=51 to 60	51-60	EUM-075S053DG	SS-60NH-V300BB or SS-100NH-V300BHB	SS-60PA-H120F				
	Z=61 to 70	61-70	EUM-075S053DG	SS-70NH-V300BB or SS-100NH-V300BHB	SS-80PA-H160F				
	Z=71 to 80	71-80	EUM-100S053DG	SS-80NH-V300BHB or SS-100NH-V300BHB	SS-80PA-H160F				
	Z=81 to 100	81-100	EUM-100S053DG	SS-100NH-V300BHB	SS-120PA-H240F				
AOK-ZWiLH(M)-NV-A5-BB-XXYY-BN-P	Z=101 to 120	101-120	EUM-150S070DG	SS-150NH-V300BHB	SS-120PA-H240F		559*220*97	3,4	0,1
	Z=121 to 150	121-150	EUM-150S070DG	SS-150NH-V300BHB	SS-165PA-H330F		609*235*97	4,0	0,12
AOK-ZWiLH(L)-NV-A5-BB-XXYY-BN-P	Z=121 to 150	121-150	EUM-150S070DG	SS-150NH-V300BHB	SS-165PA-H330F				
	Z=151 to 160	151-160	EUM-200S070DG	SS-200NH-V300BHB	SS-165PA-H330F		609*280*100	5,4	0,143
AOK-ZWiLH(XL)-NV-A5-BB-XXYY-BN-P	Z=161 to 200	161-200	EUM-200S070DG	SS-200NH-V300BHB	SS-220PA-314F				
	Z=161 to 200	161-200	EUM-200S070DG	SS-200NH-V300BHB	SS-220PA-314F		730*300*100	7,1	0,19
AOK-ZWiLH(XXL)-NV-A5-BB-XXYY-BN-P	Z=201 to 240	201-240	EUM-240S070DG	SS-240NH-V300BHB	SS-120PA-H240F (2pcs)				
	Z=201 to 240	201-240	EUM-240S070DG	SS-240NH-V300BHB	SS-120PA-H240F (2pcs)		730*300*100	7,1	0,19
	Z=241 to 300	241-300	EUM-320S105DG	SS-320NH-V300BHB	SS-165PA-H330F (2pcs)				
AOK-ZWiLH(S)-NV-L2-BB-XXYY-BN-P	Z=10 to 30	10-30	EUM-030S050DG	SS-40NH-V300BB	SS-40PA-H80F	Lumileds 2835	545*200*97	3,0	0,091
	Z=31 to 40	31-40	EUM-050S090DG	SS-40NH-V300BB	SS-40PA-H80F				
	Z=41 to 50	41-50	EUM-050S090DG	SS-60NH-V300BB or SS-100NH-V300BHB	SS-60PA-H120F				
	Z=51 to 60	51-60	EUM-075S053DG	SS-60NH-V300BB or SS-100NH-V300BHB	SS-60PA-H120F				
	Z=61 to 70	61-70	EUM-075S053DG	SS-70NH-V300BB or SS-100NH-V300BHB	SS-80PA-H160F				

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	Z=71 to 80	71-80	EUM-100S053DG	SS-80NH-V300BHB or SS-100NH-V300BHB	SS-80PA-H160F							
	Z=81 to 100	81-100	EUM-100S053DG	SS-100NH-V300BHB	SS-120PA-H240F							
AOK-ZWiLH(M)-NV-L2-BB-XXYY-BN-P	Z=101 to 120	101-120	EUM-150S070DG	SS-150NH-V300BHB	SS-120PA-H240F					559*220* 97	3,4	0,1
	Z=121 to 150	121-150	EUM-150S070DG	SS-150NH-V300BHB	SS-165PA-H330F							
AOK-ZWiLH(L)-NV-L2-BB-XXYY-BN-P	Z=121 to 150	121-150	EUM-150S070DG	SS-150NH-V300BHB	SS-165PA-H330F					609*235* 97	4,0	0,12
	Z=151 to 160	151-160	EUM-200S070DG	SS-200NH-V300BHB	SS-165PA-H330F							
	Z=161 to 200	161-200	EUM-200S070DG	SS-200NH-V300BHB	SS-220PA-314F							
AOK-ZWiLH(XL)-NV-L2-BB-XXYY-BN-P	Z=161 to 200	161-200	EUM-200S070DG	SS-200NH-V300BHB	SS-220PA-314F					609*280* 100	5,4	0,143
	Z=201 to 240	201-240	EUM-240S070DG	SS-240NH-V300BHB	SS-120PA-H240F (2pcs)							
AOK-ZWiLH(XXL)-NV-L2-BB-XXYY-BN-P	Z=201 to 240	201-240	EUM-240S070DG	SS-240NH-V300BHB	SS-120PA-H240F (2pcs)	730*300* 100	7,1	0,19				
	Z=241 to 300	241-300	EUM-320S105DG	SS-320NH-V300BHB	SS-165PA-H330F (2pcs)							
AOK-ZWiLH(S)-NV-L3-BB-XXYY-BN-P	Z=10 to 30	10-30	EUM-030S050DG	SS-40NH-V300BB	SS-40PA-H80F	LUXEON 3030 2D	545*200* 97	3,0	0,091			
	Z=31 to 40	31-40	EUM-050S090DG	SS-40NH-V300BB	SS-40PA-H80F							
	Z=41 to 50	41-50	EUM-050S090DG	SS-60NH-V300BB or SS-100NH-V300BHB	SS-60PA-H120F							
	Z=51 to 60	51-60	EUM-075S053DG	SS-60NH-V300BB or SS-100NH-V300BHB	SS-60PA-H120F							
	Z=61 to 70	61-70	EUM-075S053DG	SS-70NH-V300BB or SS-100NH-V300BHB	SS-80PA-H160F							
	Z=71 to 80	71-80	EUM-100S053DG	SS-80NH-V300BHB or SS-100NH-V300BHB	SS-80PA-H160F							
	Z=81 to 100	81-100	EUM-100S053DG	SS-100NH-V300BHB	SS-120PA-H240F							
AOK-ZWiLH(M)-NV-L3-BB-XXYY-BN-P	Z=101 to 120	101-120	EUM-150S070DG	SS-150NH-V300BHB	SS-120PA-H240F					559*220* 97	3,4	0,1
	Z=121 to 150	121-150	EUM-150S070DG	SS-150NH-V300BHB	SS-165PA-H330F							
AOK-ZWiLH(L)-NV-L3-BB-XXYY-BN-P	Z=121 to 150	121-150	EUM-150S070DG	SS-150NH-V300BHB	SS-165PA-H330F	609*235* 97	4,0	0,12				

Remark 1: 'Z' stands for Rated Power, can be 10-300, in steps of 1W, e.g. 10=10W, 300=300W;

'BB' stands for whether with NEMA socket & short-circuit cap and Zhaga socket & sealing cap, can be 00, PH and SN, 00=without NEMA socket & short-circuit cap and Zhaga socket & sealing cap, PH=with NEMA socket & short-circuit cap, SN=with Zhaga socket & sealing cap;
'XX' stands for CCT of LED, can be 27, 30, 35, 40, 50, 57 and 65, 27=2700K, 30=3000K, 35=3500K, 40=4000K, 50=5000K, 57=5700K, 65=6500K;

'YY' stands for CRI (color rendering index), can be 70, 80 and 90, 70=Ra: 70, 80=Ra: 80, 90=Ra: 90.

Remark 2: LED types TYF 5050, Lumileds 2835 and LUXEON 3030 2D stand for different LED type; TYF 5050=TS1-H50FL-1001BC, Lumileds 2835= L128-AABBRC3500DDD, LUXEON 3030 2D=L130-AABB003000C2D

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Guangdong 518052, China

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Telefax : +86 755 8828 5299

Appendix 2 Photo document

Details of: Front view for AOK-300WiLH(XXL)-NV-A5-00-6570-BN-P (Representative model)

Remark:

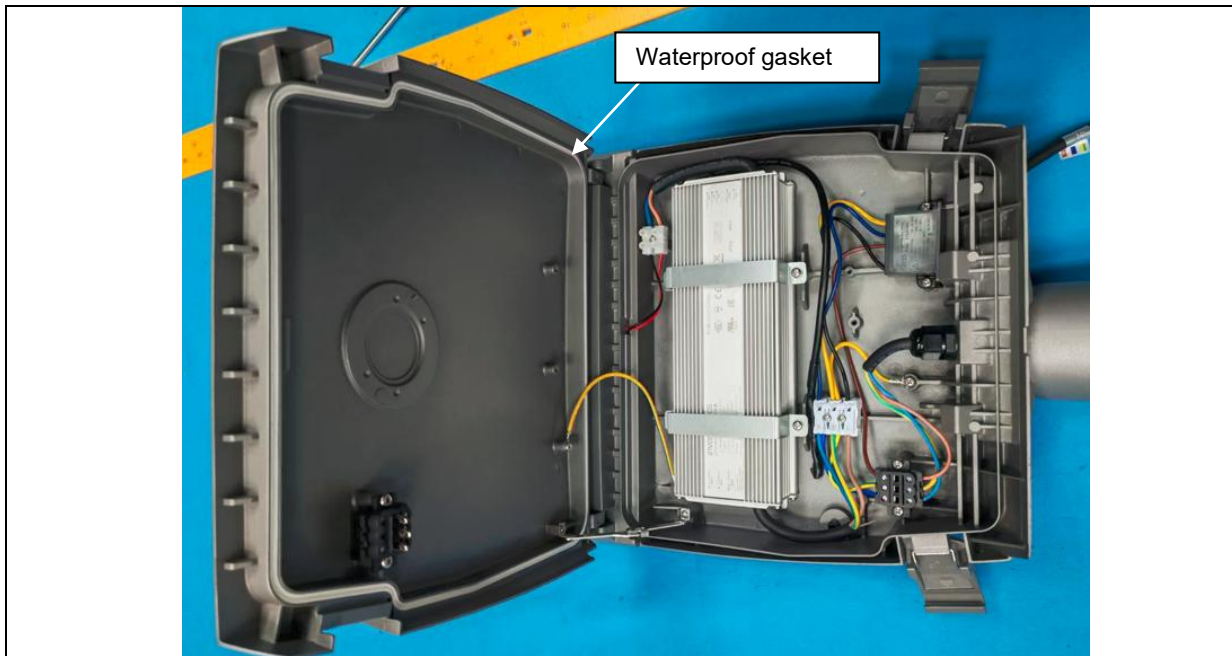


Details of: Back view for AOK-300WiLH(XXL)-NV-A5-00-6570-BN-P (Representative model)

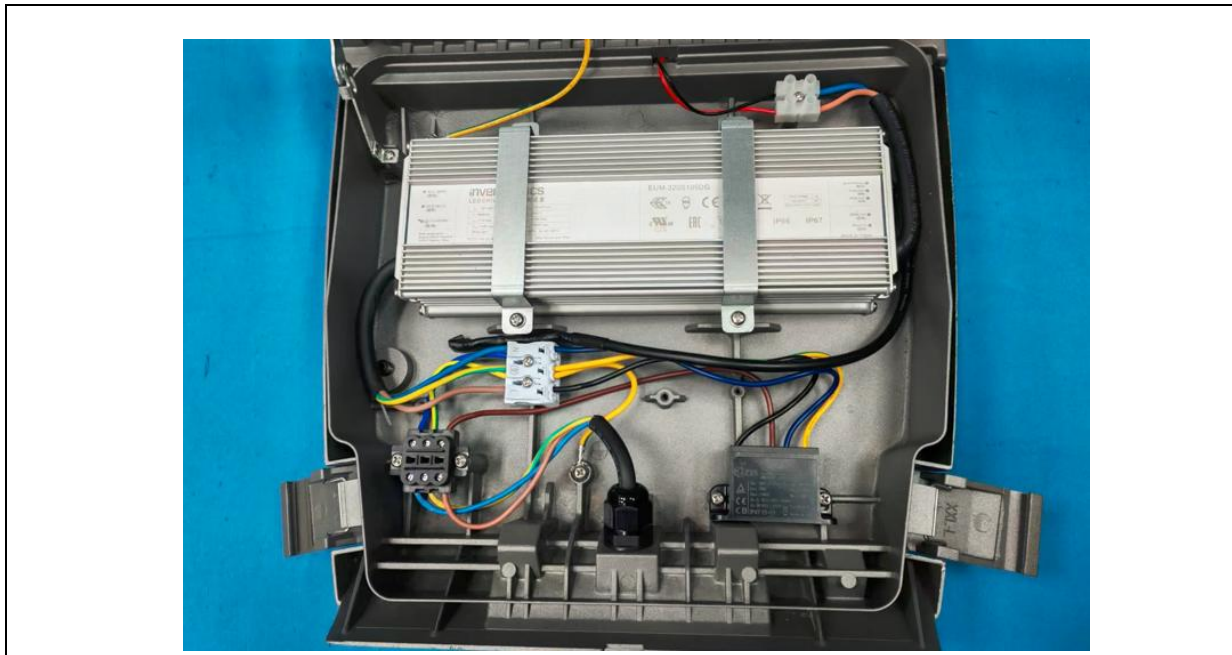
Remark:



Details of: Internal view for AOK-300WiLH(XXL)-NV-A5-00-6570-BN-P (Representative model)
 Remark:



Details of: Internal view for AOK-300WiLH(XXL)-NV-A5-00-6570-BN-P (Representative model)
 Remark:



Details of: Internal view for AOK-300WiLH(XXL)-NV-A5-00-6570-BN-P (Representative model)
Remark:



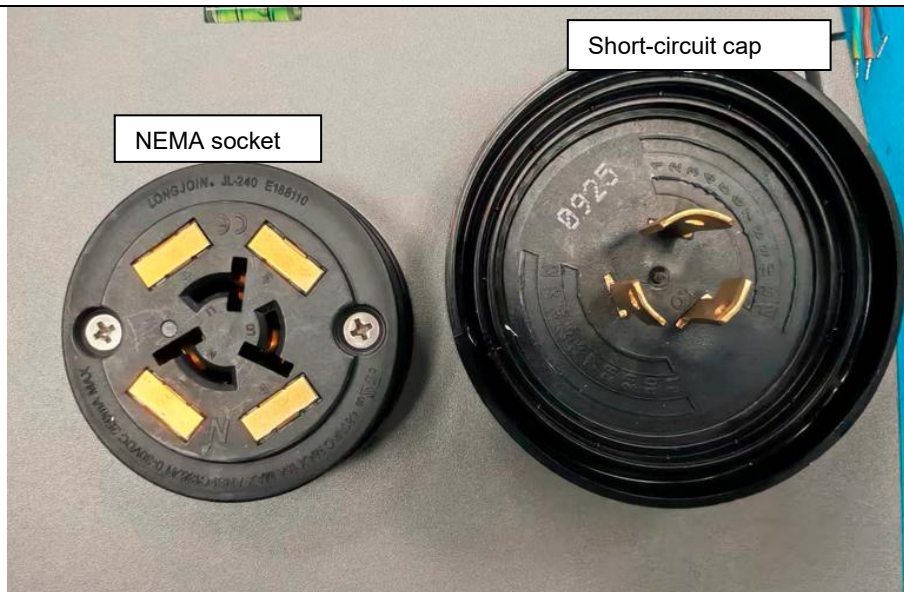
Details of: Front view for AOK-300WiLH(XXL)-NV-A5-PH-6570-BN-P (Representative model)
Remark:



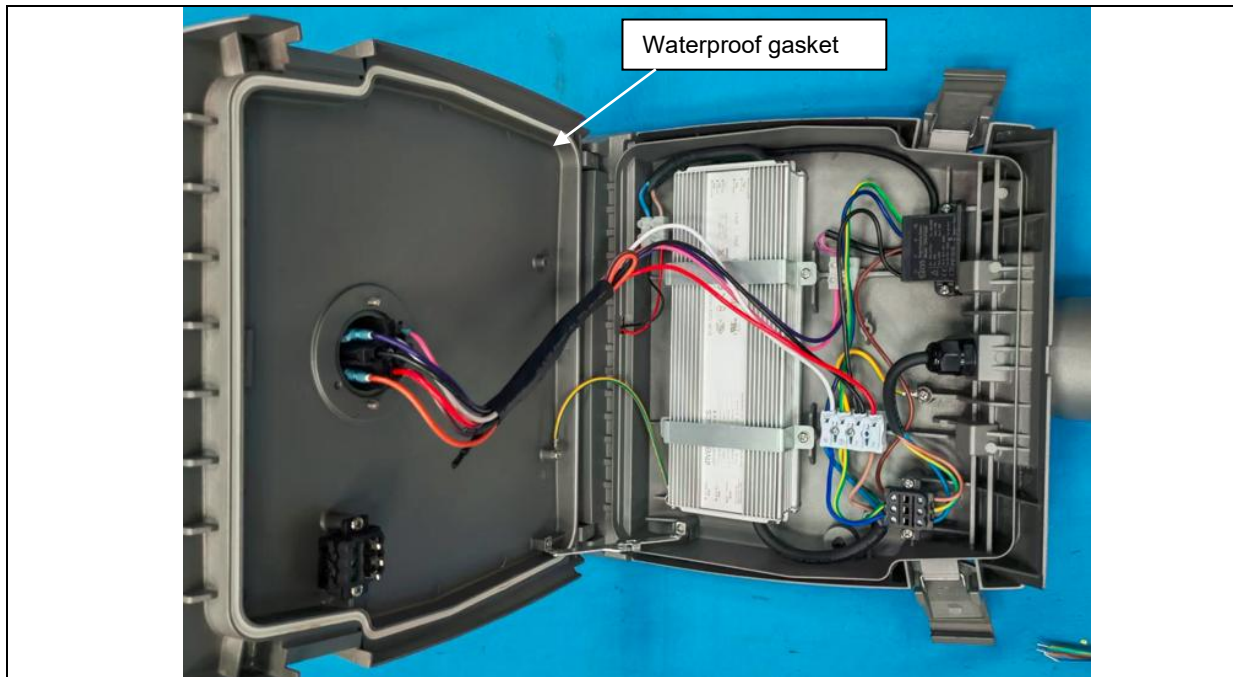
Details of: Back view for AOK-300WiLH(XXL)-NV-A5-PH-6570-BN-P (Representative model)
 Remark:



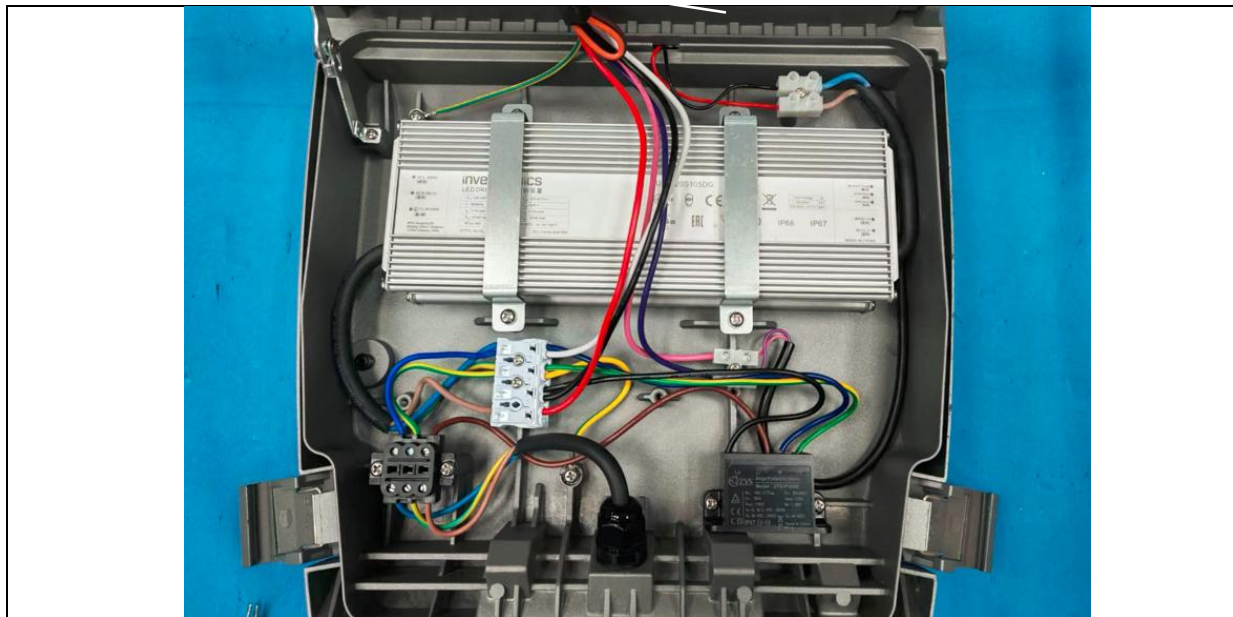
Details of: Internal view of NEMA socket after removing short-circuit cap for AOK-300WiLH(XXL)-NV-A5-PH-6570-BN-P (Representative model)
 Remark:



Details of: Internal view for AOK-300WiLH(XXL)-NV-A5-PH-6570-BN-P (Representative model)
 Remark:



Details of: Internal view for AOK-300WiLH(XXL)-NV-A5-PH-6570-BN-P (Representative model)
 Remark:



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Remark:



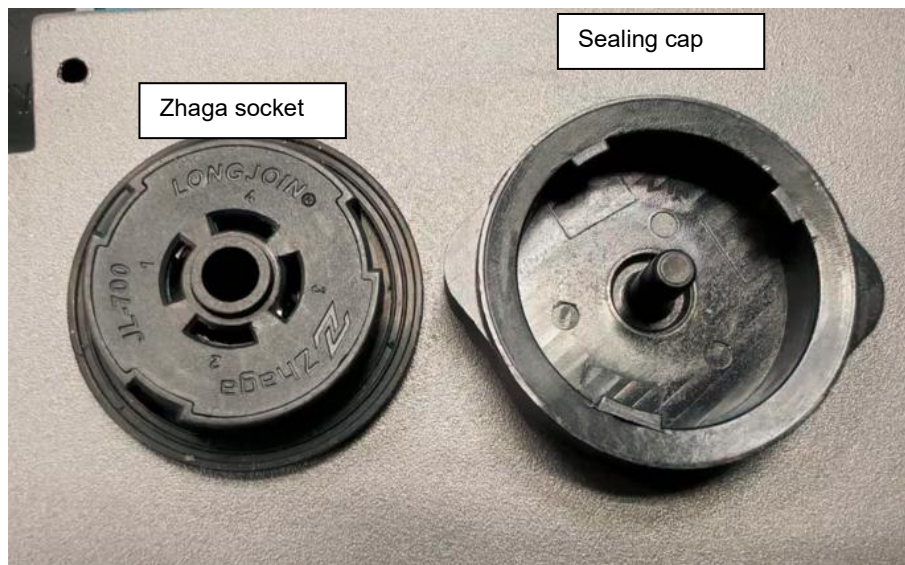
Details of: Front view for AOK-300WiLH(XXL)-NV-A5-SN-6570-BN-P (Representative model)
Remark:



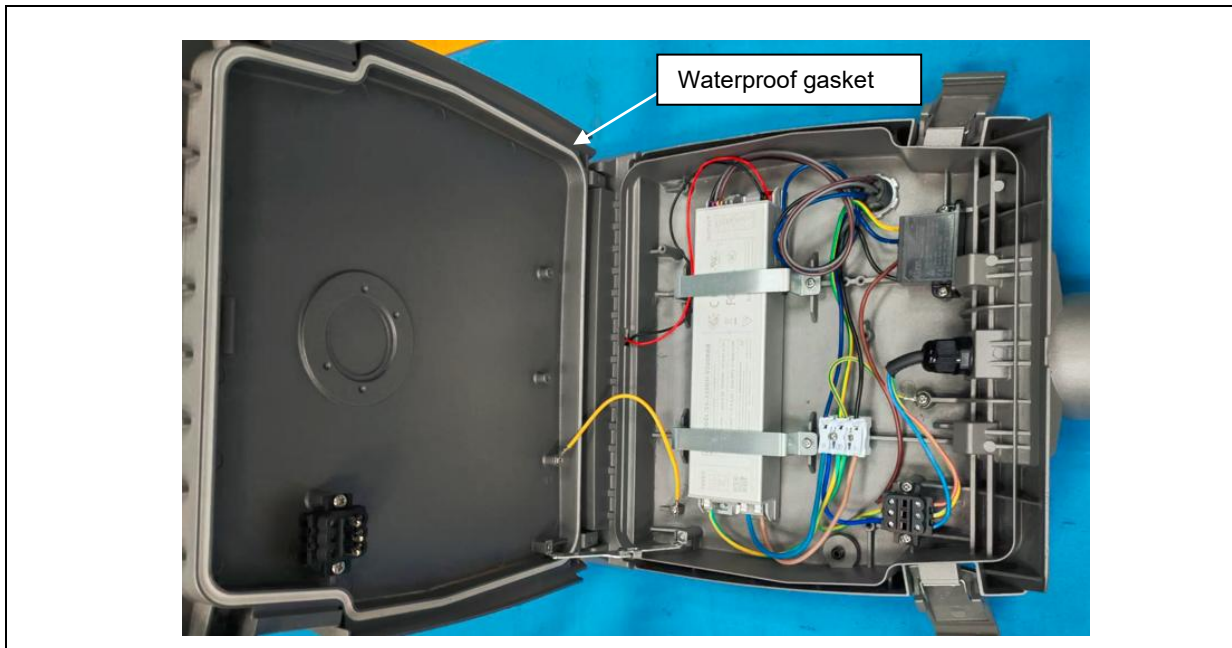
Details of: Back view for AOK-300WiLH(XXL)-NV-A5-SN-6570-BN-P (Representative model)
 Remark:



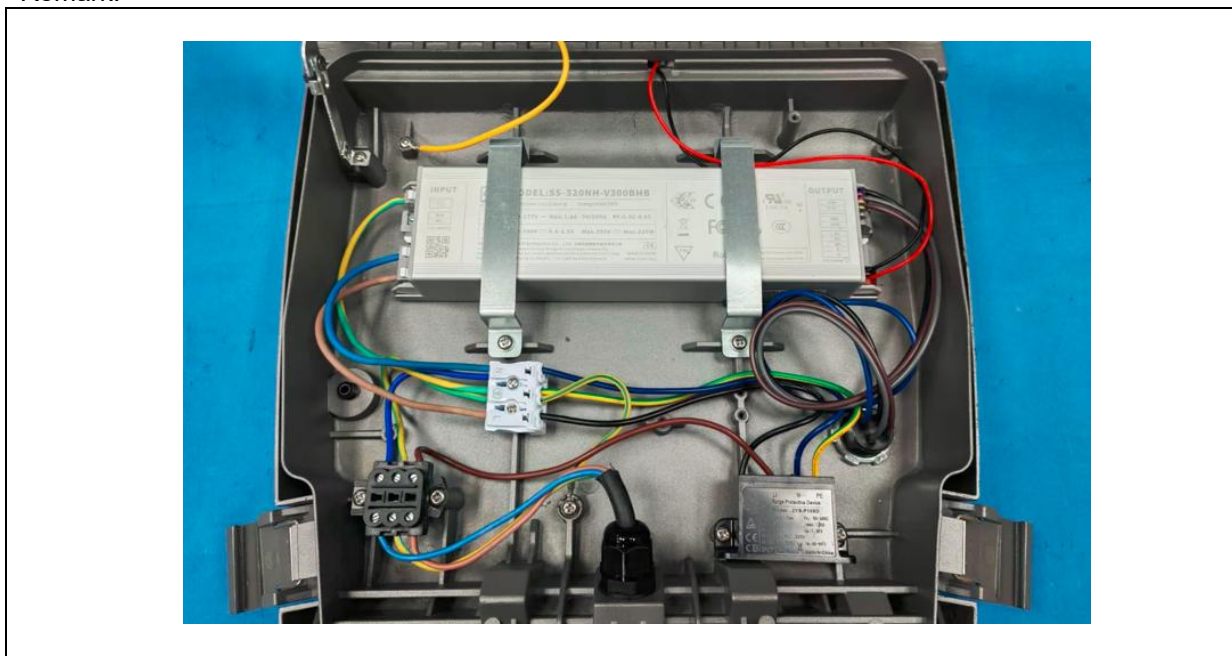
Details of: Internal view of Zhaga socket after removed sealing cap for AOK-300WiLH(XXL)-NV-A5-SN-6570-BN-P (Representative model)
 Remark:



Details of: Internal view for AOK-300WiLH(XXL)-NV-A5-SN-6570-BN-P (Representative model)
 Remark:



Details of: Internal view for AOK-300WiLH(XXL)-NV-A5-SN-6570-BN-P (Representative model)
 Remark:



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Remark:



Details of: Internal view for AOK-300WiLH(XXL)-NV-A5-SN-6570-BN-P (Representative model)
Remark:



Details of: LED module view for AOK-300WiLH(XXL)-NV-A5-SN-6570-BN-P (Representative model)

Remark:



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