



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX INE 24.0024X** Page 1 of 3 [Certificate history:](#)  
Status: **Current** Issue No: 0  
Date of Issue: 2025-11-17  
Applicant: **OLYMPIA - ELECTRONICS**  
72 km Old National Road  
Thessaloniki Katerini  
AIGINIO 60300  
**Greece**  
Equipment: **LED Lighting and Emergency Lighting Type PSL\*\*, PTD\*\*, GSL\*\*, GTD\*\***  
Optional accessory:  
Type of Protection: **db, tb**  
Marking: Ex db IIC T6 Gb  
Ex tb IIIC T85°C Db

Approved for issue on behalf of the IECEx  
Certification Body:

Position:

Signature:  
(for printed version)

Date:  
(for printed version)



Thierry HOUEIX

Ex Certification Officer

2025-11-21

Signé électroniquement  
Digitally signed by  
Thierry HOUEIX  
Ex Certification Officer  
Délégué Certification

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**INERIS**  
Institut National de l'Environnement Industriel et des Risques  
BP n2 / Parc Technologique ALATA  
F-60550 Verneuil-en-Halatte  
**France**



controlling risks  
for sustainable development



# IECEX Certificate of Conformity

Certificate No.: **IECEX INE 24.0024X**

Page 2 of 3

Date of issue: 2025-11-17

Issue No: 0

Manufacturer: **OLYMPIA - ELECTRONICS**  
72 km Old National Road  
Thessaloniki Katerini  
AIGINIO 60300  
**Greece**

Manufacturing locations: **OLYMPIA - ELECTRONICS**  
72 km Old National Road  
Thessaloniki Katerini  
AIGINIO 60300  
**Greece**

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

#### STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

[IEC 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:3.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

#### TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[FR/INE/ExTR24.0059/00](#)

Quality Assessment Report:

[FR/INE/QAR24.0003/00](#)



# IECEX Certificate of Conformity

Certificate No.: **IECEX INE 24.0024X**

Page 3 of 3

Date of issue: 2025-11-17

Issue No: 0

## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

This range of lighting and emergency lighting are suitable for explosive gas atmospheres of group IIC protected by flameproof enclosure « Ex db » and for dust group IIIC protected by enclosure « Ex tb ».

The range covers 3 sizes of enclosures E1 (smaller), E2 (middle size) and E3 (bigger). The translucent tube could be made in borosilicate glass or in polycarbonate sealed on the body by means of two cemented joints. The body consists of two caps and a threaded cover made in Aluminum alloy.

Two studs made of steel are mounted internally between the sealed caps to ensure the mechanical strength of the assembly. The threaded cover (M126) is installed on the body and can be opened for access to the installation and maintenance. A hexagonal screw blocks the opening. An O-ring is fixed on the cover to ensure the IP rating. There are two NPT 3/4 threaded holes on the body for cable entry.

The luminaires are intended to receive different types of LED array, batteries (for emergency versions) and other electronic devices such as drivers, converter, monitoring modules: the different configurations are detailed in descriptive documents of the manufacturer.

The luminaire in emergency version can contain a battery pack that consists of 3, 4 or 5 cells type Ni-Cd or Ni-MH connected in series with the following options:

- Ni-Cd 1.2V 4.5Ah (D-D4500BT from BST)
- Ni-Cd 1,2V 4Ah (D-D000BT\*4H from BST),
- Ni-Cd 1.2V 4,2Ah (VNT D U HC from ARTS)
- Ni-Cd 1.2V 1.6Ah (VNT Cs U from ARTS)
- Ni-MH 1.2V 2.2Ah (GP220SCHT from GP Batteries)
- Ni-MH 1.2V 4Ah (GP400LALHT from GP Batteries)
- Ni-Mh 1.2V 1.6Ah (HSC1600HT from GP Batteries)

Otherwise, the luminaire in emergency version can contain a battery pack LiFePO4 that consists of a single cell from the following list:

- LiFePO4 3.2V 3.0Ah (Model IFR-3.2V3Ah from THLB)
- LiFePO4 3.2V 6.0Ah (Model IFR-3.2V6Ah from THLB)
- LiFePO4 3.2V 9.0Ah (Model IFR-3.2V9Ah from THLB)

The luminaires get the degree of protection IP66 in accordance with IEC 60529.

## SPECIFIC CONDITIONS OF USE: YES as shown below:

- During the installation, the user will take into consideration that the equipment underwent only a shock corresponding to an energy of a low risk.
- For the risk from electrostatic discharge, the user shall read the instructions.
- Two studs made of steel are mounted internally between the sealed cap and the body to ensure the mechanical strength of the assembly. The studs must be of quality higher or equal to 5.8

## Annex:

[IECEX INE 24.0024X-00\\_Annex.pdf](#)



# IECEX Certificate of Conformity

Certificate No.:

**IECEX INE 24.0024X**

Page 1 of 4

Issue No: 0

Annex: IECEX INE 24.0024X-00\_Annex.pdf

## **PARAMETERS RELATING TO THE SAFETY**

The electrical parameters of luminaires and ambient temperatures depending on the different variations are specified in the Table 1 (standard version) and Table 2 (standard and/or emergency version) at the end of the certificate.

For standard version, the luminaires can be used in the following ambient temperature range:

- From -20°C to +50°C: Sizes E1, E2 and E3 made in polycarbonate
- From -20°C to +55°C: Sizes E1, E2, E3 made in glass.

For emergency version, the luminaires can be used in the following ambient temperature range:

- From 0°C to +50°C: Sizes E1, E2 and E3 made in polycarbonate
- From 0°C to +55°C: for Sizes E1, E2, E3 made in glass. When fitted with the battery pack LiFePO4, the maximum ambient temperature allowed is +50°C.

## **MARKING**

Marking has to be readable and indelible; it has to include the following indications:

- OLYMPIA ELECTRONICS
- 60300 AIGINIO - GREECE
- Type PSL... (\*), PTD... (\*), GSL... (\*), GTD... (\*)
- IECEX INE 24.0024X
- (Serial number)
- Ex db IIC T6 Gb
- Ex tb IIIC T85°C Db
- IP66
- T. Amb : (\*\*)
- Cable entry: 3/4 NPT
- WARNINGS:
  - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT
  - POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

(\*) The dots are replaced by a codification according to the manufacturing variations as listed in Table 1 and Table 2 at the end of the certificate.

(\*\*) Range of ambient temperature: See Table 1 and Table 2 at the end of the certificate.

## **ROUTINE EXAMINATIONS AND TESTS**

In accordance with clause 16.1 of the IEC 60079-1 standard each piece of equipment has to have successfully passed, before delivery, an overpressure test during at least 10 seconds under:

- 13.4 bar for the Size E1
- 12.7 bar for the Size E2
- 12.8 bar for the Size E3



# IECEX Certificate of Conformity

Certificate No.:

IECEX INE 24.0024X

Page 2 of 4

Issue No: 0

Annex: IECEX INE 24.0024X-00\_Annex.pdf

## TABLES

**TABLE 1 : Standard luminaire version**

Reference	Rated supply voltage	Flux (lm)	Housing	Ambient Temperature	Diffuser
PSL1100	220-240V 50-60Hz/ 220-240Vdc	1300	E1 PC (*)	-20°C +50°C	Transparent
PSL1200	220-240V 50-60Hz / 220-240Vdc	2400	E1 PC (*)	-20°C +50°C	Transparent
PSL2200	220-240V 50-60Hz / 220-240Vdc	2600	E2 PC (*)	-20°C +50°C	Transparent
PSL22005	220-240V 50-60Hz/ 220-240Vdc	2600	E2 PC (*)	-20°C +50°C	Transparent
PSL2200A	220-240V 50-60Hz/ 220-240Vdc	2600	E2 PC (*)	-20°C +50°C	Transparent
PSL2400	220-240V 50-60Hz/ 220-240Vdc	5100	E2 PC (*)	-20°C +50°C	Transparent
PSL3110	220-240V 50-60Hz/ 220-240Vdc	13600	E3 PC (*)	-20°C +50°C	Transparent
PSL3110A	220-240V 50-60Hz/ 220-240Vdc	13600	E3 PC (*)	-20°C +50°C	Transparent
PSL3400	220-240V 50-60Hz/ 220-240Vdc	5500	E3 PC (*)	-20°C +50°C	Transparent
PSL34005	220-240V 50-60Hz/ 220-240Vdc	5500	E3 PC (*)	-20°C +50°C	Transparent
PSL3400A	220-240V 50-60Hz/ 220-240Vdc	5500	E3 PC (*)	-20°C +50°C	Transparent
GSL1100	220-240V 50-60Hz/ 220-240Vdc	1400	E1 G (*)	-20°C +55°C	Transparent
GSL1200	220-240V 50-60Hz/ 220-240Vdc	2500	E1 G (*)	-20°C +55°C	Transparent
GSL2200	220-240V 50-60Hz / 220-240Vdc	2750	E2 G (*)	-20°C +55°C	Transparent
GSL22005	220-240V 50-60Hz / 220-240Vdc	2750	E2 G (*)	-20°C +55°C	Transparent
GSL2200A	220-240V 50-60Hz/ 220-240Vdc	2850	E2 G (*)	-20°C +55°C	Transparent
GSL2400	220-240V 50-60Hz / 220-240Vdc	5350	E2 G (*)	-20°C +55°C	Transparent
GSL3110	220-240V 50-60Hz / 220-240Vdc	14100	E3 G (*)	-20°C +55°C	Transparent
GSL3110A	220-240V 50-60Hz / 220-240Vdc	14100	E3 G (*)	-20°C +55°C	Transparent
GSL3400	220-240V 50-60Hz / 220-240Vdc	5750	E3 G (*)	-20°C +55°C	Transparent
GSL34005	220-240V 50-60Hz / 220-240Vdc	5750	E3 G (*)	-20°C +55°C	Transparent
GSL3400A	220-240V 50-60Hz / 220-240Vdc	5750	E3 G (*)	-20°C +55°C	Transparent

(\*) : PC : Polycarbonate tube, G : Glass tube

(\*\*): The reference could be completed by "G" when the luminaires in grey color and/or "-6500" when the luminaire is provided with LED colors 6500K. For instance: PSL1100**G-6500**



# IECEX Certificate of Conformity

Certificate No.:

IECEX INE 24.0024X

Page 3 of 4

Issue No: 0

Annex: IECEX INE 24.0024X-00\_Annex.pdf

**TABLE 2 : Standard and/or emergency luminaire version**

Reference	Rated supply voltage	Flux (lm)	Emergency flux (lm)	Housing	Ambient Temperature	Battery pack	Diffuser
PTD1400LX	220-240V 50-60Hz		460	E1 PC (*)	0°C+50°C	3.2V 3.0Ah LiFePO4	Transparent
PTD1400LX3	220-240V 50-60Hz		460	E1 PC (*)	0°C+50°C	3.2V 6.0Ah LiFePO4	Transparent
PTD1400X	220-240V 50-60Hz		350	E1 PC (*)	0°C+50°C	3,6 V 1'6 Ah Ni Cd	Opale
PTD1400X3	220-240V 50-60Hz		350	E1 PC (*)	0°C+50°C	3,6V 4Ah Ni-Cd	Opale
PTD1700LX3	220-240V 50-60Hz		840	E1 PC (*)	0°C+50°C	3.2 V 9.0Ah LiFePO4	Transparent
PTD1700LXP	220-240V 50-60Hz	2400	840	E1 PC (*)	0°C+50°C	3.2V 3.0Ah LiFePO4	Transparent
PTD1700X3	220-240V 50-60Hz		750	E1 PC (*)	0°C+50°C	6V 4Ah Ni-Cd	Opale
PTD1700XP	220-240V 50-60Hz	2150	750	E1 PC (*)	0°C+50°C	6V 1,6Ah Ni-Cd	Opale
PTD2400AP	220-240V 50-60Hz	2500	750	E2 PC (*)	0°C+50°C	6V 1,6Ah Ni-Cd	Opale
PTD2400AP3	220-240V 50-60Hz	2500	750	E2 PC (*)	0°C+50°C	6V 4Ah Ni-Cd	Opale
PTD2400LAP	220-240V 50-60Hz	2600	870	E2 PC (*)	0°C+50°C	3.2V 3.0Ah LiFePO4	Transparent
PTD2400LAP3	220-240V 50-60Hz	2600	870	E2 PC (*)	0°C+50°C	3.2 V 9.0Ah LiFePO4	Transparent
PTD2400LXP	220-240V 50-60Hz	2600	870	E2 PC (*)	0°C+50°C	3.2V 3.0Ah LiFePO4	Transparent
PTD2400LXP3	220-240V 50-60Hz	2600	870	E2 PC (*)	0°C+50°C	3.2 V 9.0Ah LiFePO4	Transparent
PTD2400XP	220-240V 50-60Hz	2500	750	E2 PC (*)	0°C+50°C	6V 1,6Ah Ni-Cd	Opale
PTD2400XP3	220-240V 50-60Hz	2500	750	E2 PC (*)	0°C+50°C	6V 4Ah Ni-Cd	Opale
PTD2700AP	220-240V 50-60Hz	4750	750	E2 PC (*)	0°C+50°C	6V 1,6Ah Ni-Cd	Opale
PTD2700AP3	220-240V 50-60Hz	4750	750	E2 PC (*)	0°C+50°C	6V 4Ah Ni-Cd	Opale
PTD2700LAP	220-240V 50-60Hz	5100	830	E2 PC (*)	0°C+50°C	3.2V 3.0Ah LiFePO4	Transparent
PTD2700LAP3	220-240V 50-60Hz	5100	830	E2 PC (*)	0°C+50°C	3.2 V 9.0Ah LiFePO4	Transparent
PTD2700LX	220-240V 50-60Hz		890	E2 PC (*)	0°C+50°C	3.2V 3.0Ah LiFePO4	Transparent
PTD2700LX3	220-240V 50-60Hz		890	E2 PC (*)	0°C+50°C	3.2 V 9.0Ah LiFePO4	Transparent
PTD2700LXP	220-240V 50-60Hz	5100	890	E2 PC (*)	0°C+50°C	3.2V 3.0Ah LiFePO4	Transparent
PTD2700LXP3	220-240V 50-60Hz	5100	890	E2 PC (*)	0°C+50°C	3.2 V 9.0Ah LiFePO4	Transparent
PTD2700X	220-240V 50-60Hz		750	E2 PC (*)	0°C+50°C	6V 1,6Ah Ni-Cd	Opale
PTD2700X3	220-240V 50-60Hz		750	E2 PC (*)	0°C+50°C	6V 4Ah Ni-Cd	Opale
PTD2700XP	220-240V 50-60Hz	4750	750	E2 PC (*)	0°C+50°C	6V 1,6Ah Ni-Cd	Opale
PTD2700XP3	220-240V 50-60Hz	4750	750	E2 PC (*)	0°C+50°C	6V 4Ah Ni-Cd	Opale
PTD3700AP	220-240V 50-60Hz	4750	750	E3 PC (*)	0°C+50°C	6V 1,6Ah Ni-Cd	Opale
PTD3700AP3	220-240V 50-60Hz	4750	750	E3 PC (*)	0°C+50°C	6V 4Ah Ni-Cd	Opale
PTD3700LAP	220-240V 50-60Hz	5550	980	E3 PC (*)	0°C+50°C	3.2V 3.0Ah LiFePO4	Transparent
PTD3700LAP3	220-240V 50-60Hz	5550	980	E3 PC (*)	0°C+50°C	3.2 V 9.0Ah LiFePO4	Transparent
PTD3700LXP	220-240V 50-60Hz	5550	980	E3 PC (*)	0°C+50°C	3.2V 3.0Ah LiFePO4	Transparent
PTD3700LXP3	220-240V 50-60Hz	5550	980	E3 PC (*)	0°C+50°C	3.2 V 9.0Ah LiFePO4	Transparent
PTD3700XP	220-240V 50-60Hz	4750	750	E3 PC (*)	0°C+50°C	6V 1,6Ah Ni-Cd	Opale
PTD3700XP3	220-240V 50-60Hz	4750	750	E3 PC (*)	0°C+50°C	6V 4Ah Ni-Cd	Opale
PTD3110LAP3	220-240V 50-60Hz	13600	980	E3 PC (*)	0°C+50°C	3.2 V 9.0Ah LiFePO4	Transparent
PTD3110LXP3	220-240V 50-60Hz	13600	980	E3 PC (*)	0°C+50°C	3.2 V 9.0Ah LiFePO4	Transparent
GTD1400LX	220-240V 50-60Hz		480	E1 G (*)	0°C+50°C	3.2V 3.0Ah LiFePO4	Transparent
GTD1400LX3	220-240V 50-60Hz		480	E1 G (*)	0°C+50°C	3.2V 6.0Ah LiFePO4	Transparent
GTD1400X	220-240V 50-60Hz		400	E1 G (*)	0°C+55°C	3,6 V 1'6 Ah Ni Cd	Opale
GTD1400X3	220-240V 50-60Hz		400	E1 G (*)	0°C+55°C	3,6V 4Ah Ni-Cd	Opale
GTD1700LX3	220-240V 50-60Hz		880	E1 G (*)	0°C+50°C	3.2 V 9.0Ah LiFePO4	Transparent
GTD1700LXP	220-240V 50-60Hz	2750	880	E1 G (*)	0°C+50°C	3.2V 3.0Ah LiFePO4	Transparent
GTD1700X3	220-240V 50-60Hz		800	E1 G (*)	0°C+55°C	6V 4Ah Ni-Cd	Opale
GTD1700XP	220-240V 50-60Hz	2500	800	E1 G (*)	0°C+55°C	6V 1,6Ah Ni-Cd	Opale
GTD2400AP	220-240V 50-60Hz	2650	800	E2 G (*)	0°C+55°C	6V 1,6Ah Ni-Cd	Opale



# IECEX Certificate of Conformity

Certificate No.:

IECEX INE 24.0024X

Page 4 of 4

Issue No: 0

Annex: IECEX INE 24.0024X-00\_Annex.pdf

**TABLE 2 : Standard and/or emergency luminaire version**

Reference	Rated supply voltage	Flux (lm)	Emergency flux (lm)	Housing	Ambient Temperature	Battery pack	Diffuser
GTD2400AP3	220-240V 50-60Hz	2650	800	E2 G (*)	0°C+55°C	6V 4Ah Ni-Cd	Opale
GTD2400LAP	220-240V 50-60Hz	2850	920	E2 G (*)	0°C+50°C	3.2V 3.0Ah LiFePO4	Transparent
GTD2400LAP3	220-240V 50-60Hz	2850	920	E2 G (*)	0°C+50°C	3.2 V 9.0Ah LiFePO4	Transparent
GTD2400LXP	220-240V 50-60Hz	2750	920	E2 G (*)	0°C+50°C	3.2V 3.0Ah LiFePO4	Transparent
GTD2400LXP3	220-240V 50-60Hz	2750	920	E2 G (*)	0°C+50°C	3.2 V 9.0Ah LiFePO4	Transparent
GTD2400XP	220-240V 50-60Hz	2650	800	E2 G (*)	0°C+55°C	6V 1,6Ah Ni-Cd	Opale
GTD2400XP3	220-240V 50-60Hz	2650	800	E2 G (*)	0°C+55°C	6V 4Ah Ni-Cd	Opale
GTD2700AP	220-240V 50-60Hz	5000	800	E2 G (*)	0°C+55°C	6V 1,6Ah Ni-Cd	Opale
GTD2700AP3	220-240V 50-60Hz	5000	800	E2 G (*)	0°C+55°C	6V 4Ah Ni-Cd	Opale
GTD2700LAP	220-240V 50-60Hz	5350	870	E2 G (*)	0°C+50°C	3.2V 3.0Ah LiFePO4	Transparent
GTD2700LAP3	220-240V 50-60Hz	5350	870	E2 G (*)	0°C+50°C	3.2V 9.0Ah LiFePO4	Transparent
GTD2700LX	220-240V 50-60Hz		930	E2 G (*)	0°C+50°C	3.2V 3.0Ah LiFePO4	Transparent
GTD2700LX3	220-240V 50-60Hz		930	E2 G (*)	0°C+50°C	3.2 V 9.0Ah LiFePO4	Transparent
GTD2700LXP	220-240V 50-60Hz	5350	930	E2 G (*)	0°C+50°C	3.2V 3.0Ah LiFePO4	Transparent
GTD2700LXP3	220-240V 50-60Hz	5350	930	E2 G (*)	0°C+50°C	3.2V 9.0Ah LiFePO4	Transparent
GTD2700X	220-240V 50-60Hz		800	E2 G (*)	0°C+55°C	6V 1,6Ah Ni-Cd	Opale
GTD2700X3	220-240V 50-60Hz		800	E2 G (*)	0°C+55°C	6V 4Ah Ni-Cd	Opale
GTD2700XP	220-240V 50-60Hz	5000	800	E2 G (*)	0°C+55°C	6V 1,6Ah Ni-Cd	Opale
GTD2700XP3	220-240V 50-60Hz	5000	800	E2 G (*)	0°C+55°C	6V 4Ah Ni-Cd	Opale
GTD3700AP	220-240V 50-60Hz	5000	800	E3 G (*)	0°C+55°C	6V 1,6Ah Ni-Cd	Opale
GTD3700AP3	220-240V 50-60Hz	5000	800	E3 G (*)	0°C+55°C	6V 4Ah Ni-Cd	Opale
GTD3700LAP	220-240V 50-60Hz	5750	1020	E3 G (*)	0°C+50°C	3.2V 3.0Ah LiFePO4	Transparent
GTD3700LAP3	220-240V 50-60Hz	5750	1020	E3 G (*)	0°C+50°C	3.2 V 9.0Ah LiFePO4	Transparent
GTD3700LXP	220-240V 50-60Hz	5750	1020	E3 G (*)	0°C+50°C	3.2V 3.0Ah LiFePO4	Transparent
GTD3700LXP3	220-240V 50-60Hz	5750	1020	E3 G (*)	0°C+50°C	3.2 V 9.0Ah LiFePO4	Transparent
GTD3700XP	220-240V 50-60Hz	5000	800	E3 G (*)	0°C+55°C	6V 1,6Ah Ni-Cd	Opale
GTD3700XP3	220-240V 50-60Hz	5000	800	E3 G (*)	0°C+55°C	6V 4Ah Ni-Cd	Opale
GTD3110LAP3	220-240V 50-60Hz	14100	1020	E3 G (*)	0°C+50°C	3.2 V 9.0Ah LiFePO4	Transparent
GTD3110LXP3	220-240V 50-60Hz	14100	1020	E3 G (*)	0°C+50°C	3.2 V 9.0Ah LiFePO4	Transparent

(\*) : PC : Polycarbonate tube, G : Glass tube

(\*\*) The reference could be completed by "G" when the luminaires in grey color and/or "-6500" when the luminaire is provided with LED colors 6500K. For instance: PSL1100G-6500