



Ref. Certif. No.

DK-98950-P1-M1-UL

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product

Constant Current Built-in LED Module

Name and address of the applicant

Signify Netherlands B.V.
High Tech Campus 48 EINDHOVEN 5656 AE
Netherlands

Name and address of the manufacturer


Signify Netherlands B.V.
High Tech Campus 48 EINDHOVEN 5656 AE
Netherlands

Name and address of the factory

Note: When more than one factory, please report on page 2

Ratings and principal characteristics

☒ Additional Information on page 2

Imax: 1920 mA , tc max: 85 °C (see test report for detailed ratings)

☒ Additional Information on page 3

Trademark / Brand (if any)

PHILIPS or  or **ADVANCE**

Customer's Testing Facility (CTF) Stage used

CTF Stage 3

Model / Type Ref.

Fortimo LED Square ylm zcc d HV/LVg a

☒ Additional Information on page 2

Additional information (if necessary may also be reported on page 2)

The report was revised to include technical modifications.

National Differences: EU Group Differences

☒ Additional Information on page 3

A sample of the product was tested and found to be in conformity with

IEC 62031:2018

As shown in the Test Report Ref. No. which forms part of this Certificate

4790778539-2 issued on 2024-09-04

This CB Test Certificate is issued by the National Certification Body



- ☐ UL Solutions (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- ☒ UL Solutions (Denmark), Borupvang 5A DK-2750 Ballerup, DENMARK
- ☐ UL Solutions (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
- ☐ UL Solutions (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see www.ul.com/ncbnames

Date: 2024-09-10

Signature:

Original Issue Date: 2023-03-20

Thomas Wilson



Ref. Certif. No.

DK-98950-P1-M1-UL

Factory(ies):

Additional Model Detail(s):

Product Key:

Fortimo LED Square ylm zcc d HV/LVg a

Where:

y = Lumen output (three or four digits).

z = CRI of LED divided by 10 (one digit, may be "8" or "9").

cc = Color temperature of LED divided by 100 (two digits, may be between 27 and 65) or "27-865" or "27-965".

d = Connector designator (may be blank or "FC" = front connector or "BC" = back connector).

g = Number of LED module's generation (one digit, may be "2" or "3").

a = Commercial suffix for commercial purposes (optional)

Variant Series: Fortimo LED Square-t p y zcc s d eg a

Where:

t = Size classification (may be "S" or "DS")

p = Performance (may be blank or "CED").

y = Lumen output classification, may be "LF", or "MF", or "SMF", or "HF", or "VHF", or blank.

z = CRI of LED divided by 10 (one digit, may be "8" or "9" (or blank when p = "CED")).

cc = Color temperature of LED divided by 100 (two digits, may be between 30 and 65 (or blank when p = "CED"), or maybe a value between 27 to 65 (or "27-865" or "27-965").

s = Specials, may be blank or "HE" = High Efficiency, or "PW" = Premium White, or "UHE" = Ultra High Efficiency.

d = Connector designator (may be blank or "FC" = front connector or "BC" = back connector).

e = Voltage type (may be "HV" or "LV" or "HV/LV").

g = Number of LED module's generation (one digit, may be "1" or "2" or "3" or "4").

a = Commercial suffix for commercial purposes (optional, 1-2 digits/characters)

Additional information (if necessary)



☐ UL Solutions (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
☒ UL Solutions (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
☐ UL Solutions (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
☐ UL Solutions (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see www.ul.com/ncbnames

Date: 2024-09-10

Original Issue Date: 2023-03-20

Signature:

Thomas Wilson

Additional Ratings:

Maximum ratings of the series:

| model | DC Current [mA] | Power [W] | Number of LEDs | t _c [°C] | Max. working voltage for basic insulation to mount. surface [V] |
|------------------------|--------------------|--------------|----------------|---------------------|--|
| HV/LV2 (Max 2500lm) | 700 | 34,8 | 128 | 80 | 420 |
| HV/LV2 (Max 3500lm) | 1200 | 42,1 | 132 | 80 | 350 |
| HV/LV3 (Max 2500lm) | 700 | 36,4 | 256 | 80 | 320* |
| HV/LV3 (Max 1250lm) | 400 | 20,8 | 128 | 80 | 320* |
| HV/LV4 (t="S") | 960 | 46,1 | 64 | 85 | 350 |
| HV/LV4 (t="DS") | 1920 | 92,3 | 128 | 85** | 350 |
| HV 4 (t="S") | 480 | 46,2 | 64 | 85 | 350 |
| HV 4 (t="DS") | 960 | 92,3 | 128 | 85 | 350 |

NOTE: "HV/LV" term above indicates that the module can be used in both HV mode or LV mode.

*: for CED version, Max working voltage is 350V.

** for S=UHE, the t_c of the product is 65C.

Additionally evaluated to:

EN IEC 62031:2020, EN IEC 62031:2020/A11:2021

Summary of Modifications:

Add the additional models, update rating, product key, Annex 2, Enclosure 2 and 4.

Additional information (if necessary)


- ☐ UL Solutions (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- ☒ UL Solutions (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
- ☐ UL Solutions (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
- ☐ UL Solutions (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see www.ul.com/ncbnames

Date: 2024-09-10

Original Issue Date: 2023-03-20

Signature:



Thomas Wilson