

# ENEC+ LICENSE

License No. ENEC-01127-P7-S-PLUS-UL  
 Page 1/5  
 Date of Issue 2020-10-30

**License Holder** Signify Netherlands B.V.  
 High Tech Campus 48 Eindhoven,  
 5656 AE The Netherlands

**Production site**

**ENEC License No. (safety)** See Page 4  
 ENEC-01127-P7-M3

**Certification Mark** See Annex 1

**Certified Product** Built-in LED Module  
*b Strip p w x u y l z c c s d e V g D a*

**Model** See Pages 2-3

**Trademark**



**Rated Voltage / Frequency**  
**Rated Current / Power**

HV: I<sub>max</sub> 1000 mA ---

LV: I<sub>max</sub> 2000 mA ---

See Pages 2-3

**Insulation Class**

--

**Degree of protection (IP)**

--

**Complying with the following EPRS  
 standard for performance**

PD EPRS 001:2018-05 (based on EN 62717:2017)

**EPRS Test Report No.**  
**Additional Information**

4789590971-2 issued on 2020-10-22

**Certification Manager**  
 Jan-Erik Storgaard

**Certification Body**

This is to certify that representative sample(s) of the Product described herein ("Certified Product") have been investigated and found in compliance with the Standard(s) indicated on this License, in accordance with the ENEC+ Requirements. The Designated License holder is entitled to use the ENEC+ 15 Mark (as shown in annex 1) for the Certified Product manufactured at the production site(s) identified above in accordance with the ENEC Mark Service Agreement including without limitation the ENEC Mark Testing and Certification Services Service Terms. Only those Products bearing a valid ENEC Mark and the ENEC+ Mark should be considered as being covered by UL's ENEC+ Mark Service. This License shall remain valid unless terminated earlier in accordance with the Service Agreement including without limitation if the Standard identified on this License is amended or withdrawn prior the Date of Withdrawal of conflicting Standard(s).

UL International Demko A/S, Borupvang 5A, DK-2750  
 Ballerup, Denmark, Tel. +45 44 85 65 65, info.dk@ul.com  
 www.ul-europe.com



# ENEC+ LICENSE

License No. ENEC-01127-P7-S-PLUS-UL  
 Page 2/5  
 Date of Issue 2020-10-30

Model details:

**Product Key:**

*b Strip p w xu yl zcc s d eVgD a*

Where:

*b* = Family name (may be "Fortimo LED" or "CertaFlux LED" or "FO" or "CF");  
*p* = Performance (may be blank or "PR" or "ST" or "VO" or "OC" or "CES" or "ST FT" or "PR FT");  
*w* = Product width in mm (optional) (two digits, if it is omitted width is 20 mm);  
*x* = Product length in feet or mm or inch (1-4 digits/characters (for example 1.5 or 102));  
*u* = Measurement unit for product length (two characters, may be "ft" or "mm" or "in");  
*y* = Value of Lumen output or Value of Lumen output divided by 100 (1-4 digits);  
*l* = Measurement unit for Lumen output (may be "lm" or "L");  
*z* = CRI of LED divided by 10 (one digit (or blank when *p* = "CES"), may be "8" or "9");  
*cc* = Color temperature of LED divided by 100 (two digits or six characters (or blank when *p* = "CES"), may be a value between 27 to 65 (or "27-865" or "27-965" (when *p* = "PR FT" or "ST FT")));  
*s* = Specials (may be blank or "HE" = High Efficiency, or "PW" = Premium White);  
*d* = Connector designator in case of "ft" or "in" (may be blank or "NA" or "1R" or "FC" = front connector or "BC" = back connector);  
*e* = Voltage type (one character, may be "H" or "L");  
*g* = Number of LED module's generation (one or two digits, may be "1" or "2" or "3" or "4" or "4+" or "5" or "6");  
*D* = Connector designator in case of "mm" (may be blank or "F" = front connector, or "B" = back connector);  
*a* = Commercial suffix for commercial purposes (optional)

## Certification Body

This is to certify that representative sample(s) of the Product described herein ("Certified Product") have been investigated and found in compliance with the Standard(s) indicated on this License, in accordance with the ENEC+ Requirements. The Designated License holder is entitled to use the ENEC+ 15 Mark (as shown in annex 1) for the Certified Product manufactured at the production site(s) identified above in accordance with the ENEC Mark Service Agreement including without limitation the ENEC Mark Testing and Certification Services Service Terms. Only those Products bearing a valid ENEC Mark and the ENEC+ Mark should be considered as being covered by UL's ENEC+ Mark Service. This License shall remain valid unless terminated earlier in accordance with the Service Agreement including without limitation if the Standard identified on this License is amended or withdrawn prior the Date of Withdrawal of conflicting Standard(s).



# ENEC+ LICENSE

**Certificate No.** ENEC-01127-P7-S-PLUS-UL  
**Page** 3/5  
**Date of Issue** 2020-10-30

**Maximum ratings of the series:**

Type	Flux Type	Flux [lm]	Supply DC Current [mA]	LED Current [mA]	Power [W]	Number of LEDs	t <sub>c</sub> [°C]	Max. working voltage for basic insulation to mount. surface [V]
HV	-	5500	600	190	89,1	180	85	420 (350 for $b = \text{Fortimo}$ and $g \geq 4$ ) (350 for $b = \text{CertaFlux}$ and $g \geq 3$ )
	-	2200	600	150	35,64	72	80	
	-	2300 (§)	720	240	37	48	95	
	-	2200 (§§)	1000	200	69	100	85	
	-	4400 (*)	720	180	48	88	90	
	-	6400 (**)	600	200	93,6	138	95	
	HF	4000	600	200	37	72	95	
	HF	6900 (***)	720	180	59,04	96	85	
LV	-	5500	<b>2000</b>	190	72	144/180	85	120
	-	2200	900	150	35,64	72	80	
	-	2200 (§)	800	200	30	48	85	
	-	2200 (§§)	2000	200	69	100	80	
	-	4000	400	200	39	72	95	
	HF	8000	1800	150	63	144	95	

Ambient temperature Range: -40°C to +80°C

Efficacy: 199 lm/W max

(§): When  $p = \text{"OC"}$  in the product key

(§§): When  $p = \text{"CES"}$  in the product key

(\*): When  $w = \text{"32"}$  in the product key

(\*\*): When  $w = \text{"12"}$  in the product key

HF means Flux  $\geq 2000$  lm/ft

(\*\*\*): When  $a = \text{"T"}$  in the product key

## Certification Body

This is to certify that representative sample(s) of the Product described herein ("Certified Product") have been investigated and found in compliance with the Standard(s) indicated on this License, in accordance with the ENEC Requirements. The Designated License holder is entitled to use the ENEC 15 Mark (as shown in annex 1) for the Certified Product manufactured at the production site(s) identified above in accordance with the ENEC Mark Service Agreement including without limitation the ENEC Mark Testing and Certification Services Service Terms. Only those Products bearing the ENEC Mark should be considered as being covered by UL's ENEC Mark Service. This License shall remain valid unless terminated earlier in accordance with the Service Agreement including without limitation if the Standard identified on this Certificate is amended or withdrawn prior the Date of Withdrawal of conflicting Standard(s).





# ENEC+ LICENSE

**Certificate No.** ENEC-01127-P7-S-PLUS-UL  
**Page** 4/5  
**Date of Issue** 2020-10-30

Production Sites:

This certificate replaces certificate no. ENEC-01127-P6-S-PLUS-UL issued on 2020-09-10

---

## Certification Body

This is to certify that representative sample(s) of the Product described herein ("Certified Product") have been investigated and found in compliance with the Standard(s) indicated on this License, in accordance with the ENEC Requirements. The Designated License holder is entitled to use the ENEC 15 Mark (as shown in annex 1) for the Certified Product manufactured at the production site(s) identified above in accordance with the ENEC Mark Service Agreement including without limitation the ENEC Mark Testing and Certification Services Service Terms. Only those Products bearing the ENEC Mark should be considered as being covered by UL's ENEC Mark Service. This License shall remain valid unless terminated earlier in accordance with the Service Agreement including without limitation if the Standard identified on this Certificate is amended or withdrawn prior the Date of Withdrawal of conflicting Standard(s).



# Annex 1 to License No. ENEC-01127-P7-S-PLUS-UL

Annex of the form of the Mark



15 is the identification number of the Certification Body

Size of the mark:

The size of the mark may be reduced on the condition that  
it remains legible and that the ratio  $b/a=1,7$  is kept

---

**Certification Body**

This is to certify that representative sample(s) of the Product described herein ("Certified Product") have been investigated and found in compliance with the Standard(s) indicated on this License, in accordance with the ENEC+ Requirements. The Designated License holder is entitled to use the ENEC+ 15 Mark (as shown in annex 1) for the Certified Product manufactured at the production site(s) identified above in accordance with the ENEC Mark Service Agreement including without limitation the ENEC Mark Testing and Certification Services Service Terms. Only those Products bearing a valid ENEC Mark and the ENEC+ Mark should be considered as being covered by UL's ENEC+ Mark Service. This License shall remain valid unless terminated earlier in accordance with the Service Agreement including without limitation if the Standard identified on this License is amended or withdrawn prior the Date of Withdrawal of conflicting Standard(s).

