ENEC License

License
ENEC-04574-M3

Issue date
2025-08-14

This is to acknowledge that

TCI TELECOMUNICAZIONI ITALIA S.R.L

Via Parma 14 Saronno, VA, 21047 Italy

has had

Built-in LED Module

aaMbxxxx/yyyeezzzp nnnnnn/iccss
See page 4-5 for additional Information

evaluated and meets the requirements of the standard

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

Test Report Nos. 4790875716.1 issued on 2025-08-11

Certification Manager
Thomas Wilson

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark, Tel. +45 44 85 65 65

See UL Product iQ® at https://iq.ulprospector.com for additional information.

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with the Service Agreement including without limitation if the Standard identified on this License is amended or withdrawn prior the Date of Withdrawal of conflicting Standard(s).

ENEC LICENSE
TECHNICAL DETAILS

Production site(s)

TCI TELECOMUNICAZIONI ITALIA S.R.L.
Via Parma 5 Saronno, VA, 21047
Italy

Trademark

TCI or TN101 or  or  or  or  or 

Ratings

Classification: Built-in
IP: None

Max: 2750 mA DC tc: 90 °C

Type	Max. input current (A) at 0 Hz	Max. input power (W)	Max. power density (W/cm²)	t_c (°C)	Notes
aaMxxxx/yyyeezzzp nnnnnn/iccss	2,75	75	0,94	85	0,34…0,75 mm² terminal block or headers connector or pads
aaMbxxxx/yyyeezzzp nnnnnn/iccss	0,7	7	0,2	80	Cable with connector or tails
SLMxxxx/yyyeezzzp nnnnnn/iccss	2,0	425	0,7	90	Metal core pwb 0,34…0,75 mm² terminal block or headers connector or pads

The maximum working voltage for insulation of LED module is:

LED model/type	Max. voltage	Minimum distance for insulation design	Working voltage for basic insulation design * between traces ↔ lateral accessible surface
LM837/14L80 128636/8ccL LM837/14E80 128636/8ccAD LM558/14E36L 128828/8ccAD	125 V	3,1 mm	310 V
representative models of aaMxxxx/yyyeezzzp nnnnnn/iccss	120 V	2,7 mm 3,2 mm	270 V 320 V
representative models of aaMbxxxx/yyyeezzzp nnnnnn/iccss	10 V	0,35 mm	Not specified
		3,2 mm	320 V
SLM551/150H132 131091/iccI, SLM600/166G132 131366/iccCV	396 V	5,6 mm	1000 V
representative SELV models of SLMxxxx/yyyeezzzp nnnnnn/iccss	76,6 V	4,2 mm	420 V

Additional Information	The report was revised to include technical modifications. - Updated critical components table - Updated Enclosures and GPI information - Updated tables of tests - Updated Speaking code meaning See test report for details This certificate replaces the certificate ENEC-04574-M2 issued on 2024-07-18

Models (continued from page 1) **Series: aaMxxxx/yyyeezzzp nnnnnn/iccss, aaMbxxxx/yyyeezzzp nnnnnn/iccss, SLMxxxx/yyyeezzzp nnnnnn/iccss**

Speaking code meaning:

- **aa**= one or two characters for shape: **L** (linear module); **BL** (linear module); **S** (square module); **F** (finger module); **R** (round module).
- **M**= fixed character = Module.
- **b**= one character (it may be missing) for enclosure type (if present); **P**=enclosure extruded white; **N**=nero, enclosure extruded black.
- **xxxx**= two to four characters, 1st module dimension: length or diameter (20-1400 mm).
- **/**= fixed character, separator, missing if 2nd module dimension is not present.
- **yyy**= two to three characters (it may be missing), 2nd module dimension: width (9-233 mm).
- **ee**= one or two characters; any alphanumeric character(s).
- **zzz**= one to three characters; LED numbers (1-220).
- **p**= one character; position of connector; it may be missing when mounted on the top side or **L** when mounted on the bottom side; **P** pads for soldering of connections.
- **nnnnnn**= Six characters (any alphanumeric characters); commercial code.
- **/**= fixed character, separator, missing if following characters are not present.
- **i**= one character (7- 9); color rendering index (CRI/10).
- **cc**= two characters (27-65); correlated colour temperature, CCT/100;

  T1 is tunable white with 2700/4000 K;

  T2 is tunable white with 2700/5700 K;

  T3 is tunable white with 2700/6500 K;

  T4 is tunable white with 3000/5000 K;

  T5 is tunable white with 2700/5000 K;

  T6 is tunable white with 3000/4000 K (except for LED LM281B+);

  T7 is tunable white with 2000/3000 K;

  T8 is tunable white with 2400/3000 K;

  T9 is tunable white with 2000/4000 K (except for LED LM281B+).

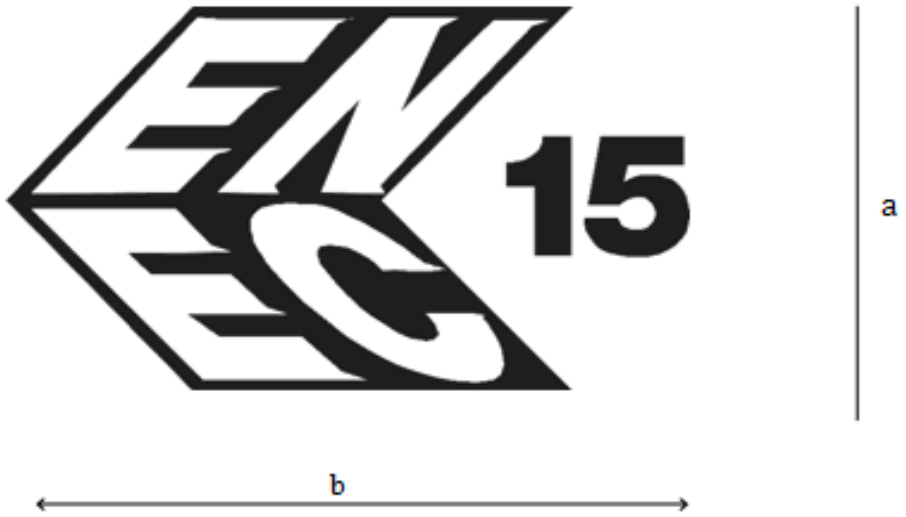
- **ss= Missing or** one or two characters:

LED Type	**ss**	**Max Current**
LM561B	R or missing	max. I_F=180 mA
LM561B+	S	max. I_F=180 mA
LM281B	E	max. I_F=150 mA
LM301B	V	max. I_F=200 mA
2835C (Luxeon)	L	max. I_F=240 mA
LM281B+	H BB, BC, CA, W, WR, AD	max. I_F=160 mA max. I_F=200 mA max. I_F=200 mA
LM281B+ PRO	BR, BS, BX CK	max. I_F=200 mA max. I_F=250 mA
LM281B+ PRO VM rank	DI	max. I_F=200 mA
LM281B+ RL rank	CY	max. I_F=200 mA
LM301B EVO	DB	max. I_F=200 mA
LM301D	AP	max. I_F=180 mA
LM302D	AM	max. I_F=200 mA
LH351B	M	max. I_F=1500 mA
LH351C	I	max. I_F=2000 mA
LH502C	BE	max. I_F=880 mA
LH502D	CV	max. I_F=800 mA
LUXEON 2835 HE	CE	max. I_F=150 mA
LUXEON 5050 HE	DE	max. I_F=800 mA
LUXEON 5050 Round LES	G	max. I_F=800 mA
NFSW757HT-V1	DU	max. I_F=200 mA
LH151B	DN	max. I_F=250 mA
LM281B+ VL rank	CW	max. I_F=100 mA
NCSWE17AT-V1	**EP**	**max. I_F=250 mA**
BXEN-65E-21L-3F-00-0-3	**EM**	**max. I_F=100 mA**
BXFN-65G-21L-3C4-00-0-3	**EN**	**max. I_F=100 mA**
JE2835B 3 V N Class	**FM**	**max. I_F=240 mA**
BXEN-65E-21M-3C-00-0-3	**FJ**	**max. I_F=145 mA**

License No. ENEC-04574-M3
Date of Issue 2025-08-14

ENEC LICENSE

FORM OF THE ENEC 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.