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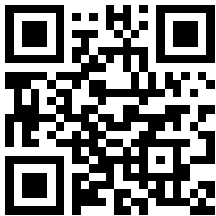**License**

ENEC-04574-M2

Issue date

2024-07-18

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 2 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 2024-07-10

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.

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TECHNICAL DETAILS

Production site(s)	TCI TELECOMUNICAZIONI ITALIA S.R.L. VIA PARMA 5 SARONNO, VA, 21047 ITALY
Trademark	TCI or TN101 or TCI or or or TCI or TCI
Ratings	Max: 2750 mA DC tc: 90 °C See Pages 2-4 for additional information
Additional Information	The report was revised to include technical modifications. The original report was modified to include the following changes/additions: -Updated critical components table -Updated General product information -Updated Enclosures -Updated tables of tests -Updated Speaking code meaning This certificate replaces the certificate ENEC-04574-M1 issued on 2024-03-04

Models (continued from page 1)

Model Details:

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

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	max. I_F=160 mA
	BB,	max. I_F=200 mA
	BC, CA, W, WR, AD	max. I_F=200 mA
LM281B+ PRO	BR, BS, BX	max. I_F=200 mA
	CK	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
NICHIA NFSW757HT-V1	**DU**	**max. I_F=200 mA**
LH151B	**DN**	**max. I_F=250 mA**
LM281B+ VL rank	**CW**	**max. I_F=100 mA**

Ratings:
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
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/iccl, 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

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FORM OF THE ENEC MARK
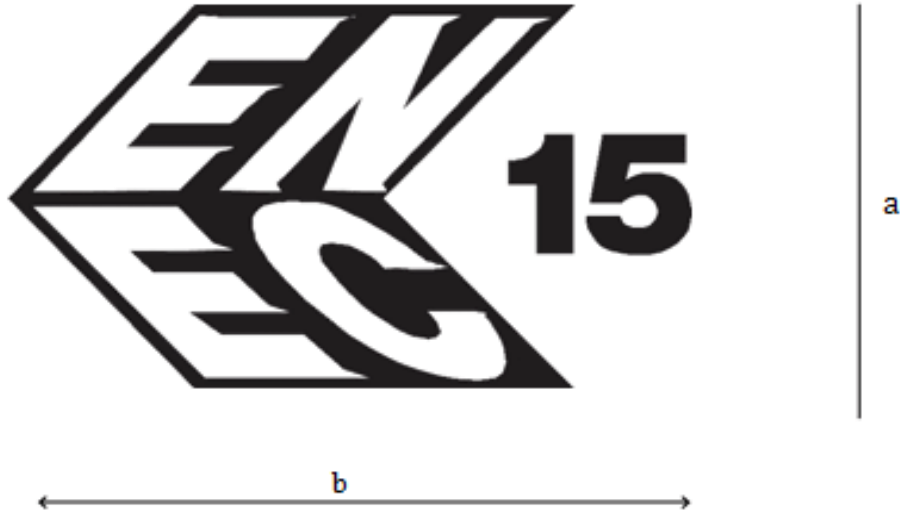
15 is the identification number of the Certification Body

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.