

ENEC LICENSE

License No. ENEC-02393-M2
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Date of Issue 2020-02-19

License Holder TCI TELECOMUNICAZIONI ITALIA S.R.L
Via Parma 14
Saronno, 21047 VA Italy

Production site TCI TELECOMUNICAZIONI ITALIA S.R.L
Via Parma 14
Saronno, 21047 VA Italy

Certification Mark See Annex 1

Certified Product Built-in LED Module

Model aaMbxxxx/yyyyezzzp nnnnnn/iccss
See Page 2

Trademark



Rated Voltage / Frequency --

Rated Current / Power Max: 2000 mA ---
See Page 2

Insulation Class --

Degree of protection (IP) --

Tested acc. to EN 62031:2008/A1:2013, EN 62031:2008/A2:2015, EN 62031:2008

Test Report No. 4788679121-1 issued on 2020-02-14

Additional tc: 90 °C
The report was revised to include technical modifications

Certification Manager
Jan-Erik Storgaard

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with the Service Agreement including without limitation if the Standard identified on this Certificate is amended or withdrawn prior the Date of Withdrawal of conflicting Standard(s).

Certification Body

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Model Details:

Type	Max. input current (A) at 0 Hz	Max. input power (W)	Max. power density (W/cm ²)	t _c (°C)	Connection to supply
aaMxxxx/yyyyeazzp nnnnnn/iccss	1,75	60	0,94	85	0,34...0,75 mm ² terminal block or headers connector or pads
aaMbxxxx/yyyyeazzp nnnnnn/iccss	0,7	7	0,2	80	Cable with connector or tails
SLMxxxx/yyyyeazzp nnnnnn/iccss	2,0	151,2	0,7	90	0,34...0,75 mm ² terminal block or headers connector or pads

Speaking code meaning:

- **aa**= one or two characters for shape: **L** (linear module); **S** (square module); **F** (finger module); **R** (round module); **SL** (street linear).
- **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**= one to four characters, 1st module dimension: length or diameter (**20-1400** mm)
- **/**= fixed character, separator, missing if 2nd module dimension is not present.
- **yyy**= one to three characters (it may be missing), 2nd module dimension: width (**10-233** mm).
- **ee**= one or two characters; any alphanumeric character(s).
- **zzz**= one to three characters; LED numbers (**1-160**).
- **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; 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 ((limited to tested LED as at following ss); **T7** is tunable white with 2000/3000 K; **T8** is tunable white with 2400/3000 K; **T9** is tunable white with 2000/4000 K (limited to tested LED as at following ss).
- **ss**= one or two characters; LED type: May be missing or **R** for LED Samsung LM561B (max. I_F=180mA); **S** for LED Samsung LM561B Plus (max. I_F=180mA); **E** for LED Samsung LM281B (max. 150 mA); **L** for LED Lumileds Luxeon 2835C (max. forward current I_F=240 mA); **H** for LED Samsung LM281B+ (max. I_F=160 mA); **M** for LED Samsung LH351B (max. I_F=1500 mA); **I** for LED Samsung LH351C (max. I_F=2000 mA); **AD** for LED Samsung LM281B+ (max. I_F=240 mA); **V** for LED Samsung LM301B (max. I_F=200 mA).

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Additional Information:

The original report was revised to include the following changes/additions:

- Addition of new models
- Update of models speaking code
- Update of components list
- Update of product information

This certificate replaces certificate no. ENEC-02393-M1 issued on 2019-08-28

The product and production sites listed on the License comply with the ENEC requirement and the UL Global Service Agreement, with reference to Terms and Conditions for the ENEC mark. The Owner of the License is entitled to use the ENEC 15 (as shown in annex 1) for the products listed on the License and manufactured at the production site listed. UL has to be informed in writing about any changes to the product or production site in accordance with the Term and Conditions of the ENEC mark.



Annex 1 to License No.

ENEC-02393-M2

Annex of the form of the Mark



* 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

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