

# CERTIFICATE

Issued to:  
Applicant:  
**TCI Telecomunicazioni Italia Srl**  
**Via Parma 14**  
**21047 Saronno (VA), Italy**

Licensee:  
**TCI Telecomunicazioni Italia Srl**  
**Via Parma 14**  
**21047 Saronno (VA), Italy**

Product : Electronic controlgear for LED modules  
Trade name(s) : TCI, TCI (with little dragon), TCI LED, TCI LED (with little dragon),  
TCI LIGHT (with little dragon and ball in square), TCI LIGHT Saronno Italy or  
TN101  
Type(s)/model(s) : DCC HPFU (series) and MP 15 HPFU (series)

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard(s) EN 61347-2-13:2014, EN 61347-2-13:2014/A1:2017, EN 61347-1:2015, EN 62384:2006 and EN 62384:2006/A1:2009
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 2033015

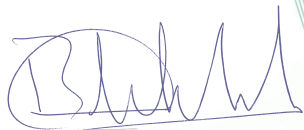
DEKRA hereby grants the right to use the ENEC certification mark.

The ENEC certification mark may be applied to the product as specified in this certificate for the duration and under the conditions of the ENEC certification agreement.

This certificate is issued on 8 July 2021 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 81-119808

DEKRA Certification B.V.



B.T.M. Holtus  
Managing Director



R Zhou  
Certification Manager

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DUTCH ACCREDITATION  
COUNCIL



**SPECIFICATION OF THE CERTIFIED PRODUCT****Product data**

|                  |                                                                                                                                                                      |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product          | : Electronic controlgear for LED modules                                                                                                                             |
| Trade name(s)    | : TCI, TCI (with little dragon), TCI LED,<br>TCI LED (with little dragon),<br>TCI LIGHT (with little dragon and ball in square),<br>TCI LIGHT Saronno Italy or TN101 |
| Type(s)/model(s) | : DCC HPFU (series) and MP 15 HPFU (series)                                                                                                                          |
| Primary voltage  | : 100-240 V for a.c., 196-250 V for d.c.                                                                                                                             |
| Rated frequency  | : 50/60 Hz, 0 Hz                                                                                                                                                     |
| Primary current  | : From 0,07 A to 0,18 A for a.c., 0,085 A to 0,1 A for d.c.                                                                                                          |
| Type of load     | : LED modules, power LED                                                                                                                                             |
| Classification   | : Independent, Built-in                                                                                                                                              |

**Product data – type DCC HPFU (series)**

|                   |                        |
|-------------------|------------------------|
| Secondary power   | : From 10 W to 14,5 W  |
| Secondary current | : From 0,25 A to 0,7 A |

**Product data – type MP 15 HPFU (series)**

|                   |                         |
|-------------------|-------------------------|
| Secondary power   | : From 2,5 W to 15 W    |
| Secondary current | : From 0,06 A to 0,36 A |

**TESTS****Test requirements**

EN 61347-2-13:2014  
EN 61347-2-13:2014/A1:2017  
EN 61347-1:2015  
EN 62384:2006  
EN 62384:2006/A1:2009

**Test result**

The test results are laid down in DEKRA test file 350033600.

**Additional information**

For specific Model/Type electrical rating refer to following pages.

DEKRA test report No. 3500336.112 and 3500336.113 are laid down in DEKRA test file 350033600; they contain test results.

DEKRA test report No. 3500336.112 contain critical component list.

**Conclusion**

The examination proved that all requirements were met.

**Factory location**

TCI Telecomunicazioni Italia Srl  
Via Parma 14  
21047 Saronno (VA), Italy



**General product information:** The devices are intended to supply high power Light Emitting Diodes or LED modules. The stabilized output current can be set by DIP switch S1 for MP 15 models. The output power can be up to Pout max with proportionate values of Iin.

| Type/s                        | Input voltage (V) [1] | Input current (A) [1] | Power Factor        | Output Power (W) | Output current (A) | U <sub>OUT</sub> (V) | ta (°C)  | tc (°C)      | Use [3]           |
|-------------------------------|-----------------------|-----------------------|---------------------|------------------|--------------------|----------------------|----------|--------------|-------------------|
| DCC 10W 250mA HPFU (K2G91)    | 220-240<br>100*-127   | 0,07<br>0,16          | 0,85 C<br>0,85 C    | 10<br>10         | 0,25               | 45                   | -25...50 | 75<br>75/80* | II, IP20, MM, 100 |
| DCC 10W 250mA HPFU BI (K2G92) |                       |                       |                     |                  |                    |                      |          |              | BI, MM, 100       |
| DCC 10W 250mA HPFU OF (K2G93) |                       |                       |                     |                  |                    |                      | -        | 80           | OF                |
| DCC 12W 700mA HPFU (K2G23)    | 220-240               | 0,08                  | 0,85 C              | 12               | 0,7                | 19                   | -25...45 | 75           | II, IP20, MM, 100 |
| DCC 12W 700mA HPFU BI (K2G24) |                       |                       |                     |                  |                    |                      |          |              | BI, MM, 100       |
| DCC 12W 700mA HPFU OF (K2G25) |                       |                       |                     |                  |                    |                      | -        | 80           | OF                |
| DCC 12W 500mA HPFU (K2G26)    | 220-240               | 0,08                  | 0,85 C              | 12               | 0,5                | 25                   | -25...50 | 80           | II, IP20, MM, 100 |
| DCC 12W 500mA HPFU BI (K2G27) |                       |                       |                     |                  |                    |                      |          |              | BI, MM, 100       |
| DCC 12W 500mA HPFU OF (K2G28) |                       |                       |                     |                  |                    |                      | -        | 80           | OF                |
| DCC 15W 350mA HPFU (K2G66)    | 220-240<br>100*-127   | 0,1<br>0,16           | 0,9 C<br>0,85 C     | 14,5<br>10       | 0,35               | 45                   | -25...45 | 75<br>75/80* | II, IP20, MM, 100 |
| DCC 15W 350mA HPFU BI (K2G67) |                       |                       |                     |                  |                    |                      |          |              | BI, MM, 100       |
| DCC 15W 350mA HPFU OF (K2G68) |                       |                       |                     |                  |                    |                      | -        | 80           | OF                |
| MP 15 HPFU (K2G29)            | 220-240<br>100*-127   | 0,1<br>0,18           | 0,8 C [2]<br>0,83 C | 2,5-15<br>2,5-10 | 0,06-0,36          | 45                   | -25...45 | 75<br>75/80* | II, IP20, MM, 100 |
| MP 15 HPFU BI (K2G30)         |                       |                       |                     |                  |                    |                      |          |              | BI, MM, 100       |
| MP 15 HPFU OF (K2G31)         |                       |                       |                     |                  |                    |                      | -        | 80           | OF                |

Notes: [1] – 196-250 Vdc, 0 Hz (operating range 176-275 Vdc), 0,1 A for 14,5-15 W models, 0,085 A for 10-12 W models; [2] – for Po≥4,2 W; [3] – Classification: II= independent, class II; IP20= case IP20; MM= suitable for direct mounting on normally flammable surfaces (EN 60598-1:2015, VDE 0710 T14 for "MM" triangle marking); 100= overheating protection (C.5.a type); BI= built-in; OF= built-in open frame.

### Connection

|        |     |                                                                                             |
|--------|-----|---------------------------------------------------------------------------------------------|
| Supply | PRI | Screw terminal block 0,75-2,5 mm <sup>2</sup> (0,5-2,5 mm <sup>2</sup> for built-in models) |
| Load   | SEC | Screw terminal block 0,5-2,5 mm <sup>2</sup>                                                |

### Additional information

|          |                                                                                                                                       |
|----------|---------------------------------------------------------------------------------------------------------------------------------------|
| Use      | Independent, built-in for ordinary luminaire, up to 2000 m above sea level.                                                           |
| Features | For LED; short-circuit proof type; impulse withstand category II and III; pollution degree 2 (Normal Pollution); material group IIIa. |

|              |                                                                                                                                                                                                                                   |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DC operation | The products were tested in the operative range as previous tables according to IEC 61347-2-13; d.c. operation for standards different from IEC/EN 61347 can be allowed with external fuse installed in front of the controlgear. |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| INSULATION (B= basic, S= supplementary, R= double or reinforced)                                                                                                                                                                                                                                                                                                   | PRI                                                         | SEC |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-----|
| PRI                                                                                                                                                                                                                                                                                                                                                                | -                                                           | R   |
| SEC                                                                                                                                                                                                                                                                                                                                                                | R                                                           | -   |
| OF models have been tested inside the enclosure of equivalent independent models; add an external fuse if necessary, according to standards different from IEC 61347 series; The creepage distances, clearances and connections of control gears in the final application shall be according to IEC 60598-1 or national deviations of the country where installed: |                                                             |     |
| INSULATION (B= basic, S= supplementary, D= double or reinforced)                                                                                                                                                                                                                                                                                                   |                                                             |     |
| DCC 10W 250mA HPFU, DCC 12W 700mA HPFU, DCC 12W 500mA HPFU, DCC 15W 350mA HPFU, MP 15 HPFU                                                                                                                                                                                                                                                                         | R between active parts ↔ the external surfaces of enclosure |     |
| DCC 10W 250mA HPFU BI, DCC 12W 700mA HPFU BI, DCC 12W 500mA HPFU BI, DCC 15W 350mA HPFU BI, MP 15 HPFU BI                                                                                                                                                                                                                                                          | R between active parts ↔ the bottom side of the enclosure   |     |
| DCC 10W 250mA HPFU OF, DCC 12W 700mA HPFU OF, DCC 12W 500mA HPFU OF, DCC 15W 350mA HPFU OF, MP 15 HPFU OF                                                                                                                                                                                                                                                          | -                                                           |     |
| Assessment to IEC 60598-2-22:2014/AMD1:2017 used in conjunction with IEC 60598-1:2014/AMD1:2017 has been performed (valid for EN 60598-2-22:2014/AMD1:2020 used in conjunction with EN 60598-1:2014/AMD1:2017 and EN 60598-1:2015/A1:2018).                                                                                                                        |                                                             |     |
| Assessment to IEC 62493:2015 (valid for EN 62493:2015) has been performed.                                                                                                                                                                                                                                                                                         |                                                             |     |
| Assessment to VDE 0710 Part 14/04.82 has been performed.                                                                                                                                                                                                                                                                                                           |                                                             |     |
| All models are suitable for direct mounting on normally flammable surfaces with the following limitation:                                                                                                                                                                                                                                                          |                                                             |     |
| DCC 12W 500mA HPFU models                                                                                                                                                                                                                                                                                                                                          | tc≤ 75 °C                                                   |     |
| Other models                                                                                                                                                                                                                                                                                                                                                       | nominal tc                                                  |     |