

CERTIFICATE

Issued to:
Applicant:
TCI Telecomunicazioni Italia S.r.l.
Via Parma, 14
21047 Saronno (VA), Italy

Licensee:
TCI Telecomunicazioni Italia S.r.l.
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) : STARLIGHT ** (* means any alphanumeric characters)

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

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

- a type test according to EN 61347-2-13:2014, EN 61347-2-13:2014/A1:2017, EN 61347-1:2015, EN 61347-1:2015/A1:2021 and EN IEC 62384:2020
- 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.

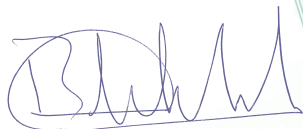
Compliance with the requirements of this Standard carries a presumption of conformity with the essential safety requirements of the Low voltage directive (LVD) 2014/35/EU.

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.

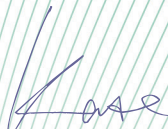
This certificate is issued on 21 November 2024 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 81-149943

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



Kate Xu
Certification Manager

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COUNCIL



SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

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)	: STARLIGHT ** (* means any alphanumeric characters)
Primary voltage	: 220-240 V for a.c., 186-250 V for d.c.
Rated frequency	: 50-60 Hz, 0 Hz
Primary current	: 0,35 A for a.c., 0,18-0,24 for d.c.
Type of load	: LED modules, power LED
Secondary current	: From 0,2-1,05 A
Secondary voltage	: 24 V
Secondary power	: 60 W, 3 W
Classification	: Built in, double insulated

TESTS**Test requirements**

EN 61347-2-13:2014
EN 61347-2-13:2014/A1:2017
EN 61347-1:2015
EN 61347-1:2015/A1:2021
EN IEC 62384:2020

Test result

The test results are documented in DEKRA test file 350964600.

Additional information

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

DEKRA test report No. 3509646.320 and 3509646.321 are laid down in DEKRA test file 350964600; they contain test results.

The list of components is laid down in test report 3509646.320.

Conclusion

The examination has confirmed that all requirements were met.

Factory location

TCI Telecomunicazioni Italia S.r.l.
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21047 Saronno (VA), Italy

General product information: The devices are intended to supply high power Light Emitting Diodes or LED modules. The devices have a constant output current for LED (depending on the NFC setting) and a constant output voltage (24 V) for auxiliary components. The stabilized output of STARLIGHT 60 200-1050 SUPERIOR is dimmable by DALI protocol (D4i). The output power can be up to Pout max with proportionate values of Iin. The STARLIGHT 60 200-1050 EASY is not dimmable. All models have SELV output.									
Types	Primary voltage (V) [1]	Max. primary current (A)	Power Factor	Max. output power (W) [2]	Output Parameter [2]	Uout (V)	ta (°C)	tc (°C)	Use [3]
STARLIGHT 60 200-1050 SUPERIOR (K2J36), STARLIGHT 60 200-1050 EASY (K2J37)	220-240 *186-250	0,35 0,18-0,24	0,95 (Pout ≥ 17 W)	60 3 40	0,2-1,05 A 24 V	120 30	-40...60	90	DI, 110
Notes: The Kxxxx code can replace the type reference. [1] – Rated value for a.c. supply (50/60 Hz) and *d.c. supply used for centralized emergency installations (0 Hz). [2] – the max. output power for LED modules decreases from 60 to 57 W when 24 V 3 W is used. [3] – DI=built-in model with double insulation; 110= the products have an overheating protection (C.5.a) and comply with temperature limit of IEC/EN 60598-1.									

Connections	SUPERIOR model	EASY model	
Input supply	PRI, L, N		screwless terminal block 0,2-1,5 mm ²
DALI terminal	D4i, +/-	-	screwless terminal block 0,2-1,5 mm ²
Auxiliary 24 V output	24V +	-	screwless terminal block 0,2-1,5 mm ²
LED module control	NTC	NTC	screwless terminal block 0,2-1,5 mm ²
Output LED load	SEC +/-		screwless terminal block 0,2-1,5 mm ²

Additional information	
Use	Built-in for street lighting, up to 2000 m above sea level.
Features	All models have the following features: for LED; stabilized output current (CC) for LED module with multiple value load; stabilized output voltage (CC) for auxiliary device; short-circuit proof type; impulse withstand category II; Pollution degree 2; Material group IIIa; AOC (Adjustable Output Current), CLO (CONSTANT LUMEN OUTPUT 20 step), MIDNIGHT. D4i drivers have an integrated DALI bus power supply and can provide power to connected DALI devices on the bus; in luminaires, this greatly simplifies the incorporation of DALI sensors or other control devices that are solely powered from the DALI bus.
DC operation	All models are suitable for d.c. operation (EL symbol) have been tested in the rated supply range 186-250 V for the specific use in centralized emergency installations (extended range 167-275 V); assessment to Clauses 22.7.2 and 22.7.3 of EN IEC 60598-2-22:2022 used in conjunction with EN IEC 60598-1:2021 has been performed. Emergency level can be setted (from 0 to 100% with Pmax. 40W). Total circuit power: 66 W.
The creepage distances, clearances and connections of control gears shall be according to IEC/EN 60598-1 or national deviations of the country where installed in the final application. INSULATION (B= basic, S= supplementary, R= double or reinforced):	
EQUI ↔ D4i, 24V, EQUI ↔ SEC, NTC	B
PRI ↔ EQUI; PRI ↔ SEC, NTC; PRI ↔ D4i, 24V	R
D4i, 24V ↔ SEC, NTC	R
Active parts ↔ housing	R

<p>Assessment to EN 62493:2015, EN 62493:2022 has been performed. Assessment to EN IEC 62442-3:2022 has been performed.</p>
