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)	:	DC JOLLY SLIM ** (* means any alphanumeric characters) and MP 32 SLIM ** (* means any alphanumeric characters)

The product and any acceptable variation thereto as 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 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.

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 December 2023 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 81-117069 REV.1

DEKRA Certification B.V.

B.T.M. Holtus
Managing Director

Jens Marggraf
Certification Manager

ACCREDITED BY THE
DUTCH ACCREDITATION
COUNCIL

PRODUCTS
RvA C 001

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)	:	DC JOLLY SLIM ** (* means any alphanumeric characters) and MP 32 SLIM ** (* means any alphanumeric characters)
Primary voltage	:	110-240 V a.c., 176-280 V d.c.
Rated frequency	:	50/60 Hz, 0 Hz
Primary current	:	0,18 A for a.c. supply, 0,21 A for d.c. supply
Type of load	:	LED modules, power LED
Secondary current	:	From 0,25 to 0,7 A
Secondary voltage	:	24 V
Secondary power	:	From 12 to 32 W
Classification	:	Built in

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 laid down in DEKRA test file 350908000.

Additional information

DEKRA Test report No. 3509080.260 and 3509080.261 are laid down in DEKRA test file 350908000; they contain test results.

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

This certificate replaces certificate No. 81-117069 which we hereby declare invalid.

The list of components is laid down in test report 3509080.260.

Conclusion

The examination proved that all requirements were met.

Factory location

TCI Telecomunicazioni Italia S.r.l.
Via Parma, 14
21047 Saronno (Va), Italy

General product information - The devices are electronic controlgears for LED modules. The devices have a stabilized output current (CC) or voltage (CV) with values depending on the selection of the DIP switch (settable by a screwdriver or equivalent tool). The MP models are not dimmable; the other ones are dimmable by analogical signals (PUSH L, ADIM, PUSH LV) and they can be synchronized by the SYNC port; DC JOLLY SLIM cod. 151680 has AM dimming.

Type/s	a.c. *d.c. PRI Current (A) [1]	Power Factor	Output Power (W)	SEC [2]	d.c. Uout (V)	ta (°C)	tc (°C) [3]	Thermal protection (°C) [4]	Use [5]
DC JOLLY SLIM (K2831), DC JOLLY SLIM MIDNIGHT (K2832), DC JOLLY SLIM BILEVEL (K2833), DC JOLLY SLIM BILEVEL (K2834), DC JOLLY SLIM PLV (K2835)	0,18 *0,21	0,96 (Po≥8 W)	13-32 15-17	0,25-0,7 A 24 V	59	-25..50	80	110	BI, PE, MM
DC JOLLY SLIM OF (K2836)						-	80	-	OF, PE
MP 32 SLIM (K2205)			13-32 15-17	0,25-0,7 A 24 V	59	-25..50	85	110	BI, PE, MM
MP 32 SLIM OF (K2837)						-	80	-	OF, PE
MP 32 SLIM HV (K2207)			14-32 15-17	0,25-0,6 A 24 V	65	-25..50	80	110	BI, PE, MM
MP 32 SLIM HV OF (K2838)						-	80	-	OF, PE
DC JOLLY SLIM cod. 151680 (K2G32)			12-32	0,25-0,7 A	59	-25..50	80	110	BI, PE, MM
DC JOLLY SLIM OF cod. 151680OF (K2G33)						-	80	-	OF, PE

Notes: Kxxxx code can replace the type reference. [1] – Rated primary voltage: 110-240 V or 110-127-240 V or 110-127/220-240 V, 50/60 Hz. [2] – Output parameter where the product is declared as “stabilized”; values according to DIP switch selection (see marking plate). [3] – the t_c point for OF models is measured on the metal cap of C14. [4] –The products have an overheating protection (C.5.a type) and comply with temperature limit of EN 60598-1. [5] – BI=built-in; OF=built-in without enclosure; PE=protective earth; MM= suitable for direct mounting on normally flammable surfaces.

Connections		
Input supply	PRI	screw terminal block 0,5…2,5 mm²
Control (if present on primary side)	PUSH L, OPERATION, RED ON, RED OFF	screw terminal block 0,5…2,5 mm²
Control (if present on secondary side)	ADIM, LEVEL, PUSH LV	screw terminal block 0,2…1,5 mm²
Syncronism (if present on secondary side)	SYNC	Connector
Output load	SEC	screw terminal block 0,2…1,5 mm²

Additional information	
Use	Built-in for street lighting, up to 2000 m above sea level.

Features	All models have the following features: AC/DC P/S for LED; stabilized output current (CC); stabilized output voltage (CV); multiple value load; short-circuit proof type; impulse withstand category II; Pollution degree 2; Material group IIIa; the material of enclosure was tested with favourable result for Glow-wire at temperature 850-960 °C; the same enclosure has been used for OF models during heating tests. Independent use only with LINEAR BOX IP67 accessory. Total circuit power: 19,8/36 W at CV/CC.	
DC operation	All models are suitable for d.c. operation (EL symbol) and they have been tested in the rated supply range 196-250 V for the specific use in centralized emergency installations (extended range 176-280 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.	
The creepage distances, clearances and connections of control gears shall be according to EN 60598-1 or national deviations of the country where installed: INSULATION (B= basic, S= supplementary, R= double or reinforced)		
Between active parts ↔ the touchable parts	All models out of OF models	B
Between active parts ↔ bottom side of enclosure	All models out of OF models	R
between L, N, PUSH L, OPERATION, RED ON, RED OFF ↔ PE earth	All models	B
Between PRI ↔ SEC	All models	R
between SEC ↔ ADIM, LEVEL, PUSH LV	All models	-
Assessment to EN 62493:2015, EN 62493:2022 has been performed when all models are built into the lighting system. Assessment to EN IEC 62442-3:2022 has been performed.		