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)	:	DC SLIM/U (series) and SLIM HPFU (series)

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

Certificate number: 81-121738 REV.1

DEKRA Certification B.V.

B.T.M. Holtus
Managing Director

K Xu
Certification Manager

ACCREDITED BY THE
DUTCH ACCREDITATION
COUNCIL

PRODUCTS
RvA C 001

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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 SLIM/U (series) and SLIM HPFU (series)
Primary voltage	:	100-240 V for a.c., 189-250 V for d.c.
Rated frequency	:	50/60 Hz or 50-60 Hz, 0 Hz
Primary current	:	From 0,08 A to 0,19 A for a.c., 0,09 A to 0,1 A for d.c.
Secondary power	:	From 6 W to 15 W
Secondary current	:	From 0,3 A to 0,7 A
Secondary voltage	:	From 8 V to 24 V
Type of load	:	LED modules, power LED
Classification	:	Independent, 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

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

DEKRA test report No. 3509080.190 and 3509080.191 are laid down in DEKRA test file 350908000; they contain test results.

DEKRA test report No. 3509080.190 contain critical component list.

This certificate replaces certificate No. 81-121738 which we hereby declare invalid.

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 electronic SELV controlgears, intended to supply high power Light Emitting Diodes or LED modules. The devices have a constant output current (CC) or constant voltage (CV).

Type/s	supply voltage (V) [1]	supply current (A) [1]	Power Factor	Output Power (W) [1]	SEC output	U_{OUT} (V)	ta (°C)	tc (°C) [2]	Use [3]
DC 15W 350mA SLIM/U (K2154)	220-240 100-120 *170-280	0,13 0,13 *0,1	0,55 C 0,6 C -	15 6 *15	0,35 A	43	-25...50	80	IND, II, MM, DNC, 100
DC 15W 350mA SLIM/U OF (K2157), DC 15W 350mA SLIM/U OFM (K2596)							-		OF, OFM
DC 14W 500mA SLIM/U (K2273)	220-240 100-120 *170-280	0,13 0,13 *0,1	0,55 C 0,6 C -	14 6 *14	0,5 A	29	-25...50	80	IND, II, MM, DNC, 100
DC 14W 500mA SLIM/U OF (K2274), DC 14W 500mA SLIM/U OFM (K2597)							-		OF, OFM
DC 13W 12V SLIM/U (K2155)	220-240 100-120 *170-280	0,13 0,13 *0,1	0,55 C 0,6 C -	13 6 *13	12 V	13	-25...50	80	IND, II, MM, DNC, 100
DC 13W 12V SLIM/U OF (K2158), DC 13W 12V SLIM/U OFM (K2599)							-		OF, OFM
DC 13W 24V SLIM/U (K2155)	220-240 100-120 *170-280	0,13 0,13 *0,1	0,55 C 0,6 C -	13 6 *13	24 V	25	-25...50	80	IND, II, MM, DNC, 100
DC 13W 24V SLIM/U OF (K2158), DC 13W 24V SLIM/U OFM (K2599)							-		OF, OFM
DC 12W 300mA SLIM/U (K2E22)	220-240 100-120 *170-280	0,13 0,13 *0,09	0,55 C 0,6 C -	12 6 *12	0,3 A	43	-25...50	80	IND, II, MM, DNC, 100
DC 12W 300mA SLIM/U OF (K2E23), DC 12W 300mA SLIM/U OFM (K2E24)							-		OF, OFM
DC 11W 700mA SLIM/U (K2275)	220-240 100-120 *170-280	0,13 0,13 *0,09	0,55 C 0,6 C -	11 6 *11	0,7 A	18	-25...50	80	IND, II, MM, DNC, 100
DC 11W 700mA SLIM/U OF (K2276), DC 11W 700mA SLIM/U OFM (K2598)							-		OF, OFM
DC 13W 12V SLIM/U IP65 (K2076)	220-240 110-120	0,19 0,19	0,55 C 0,6 C	13 10	12 V	13	-25...50	70	IND, II, IP65, MM, 100
DC 13W 12V SLIM/U IP65 OF (K2704)							-	80	OF
DC 13W 24V SLIM/U IP65 (K2077)	220-240 110-120	0,19 0,19	0,55 C 0,6 C	13 10	24 V	25	-25...50	70	IND, II, IP65, MM, 100
DC 13W 24V SLIM/U IP65 OF (K2705)							-	80	OF
DC 10W 8V SLIM/U IP65 (K2075)	220-240 110-120	0,19 0,19	0,55 C 0,6 C	10	8 V	9	-25...50	70	IND, II, IP65, MM, 100
DC 10W 8V SLIM/U IP65 OF (K2703)							-	80	OF
SLIM 15W 350mA HPFU (K2H45)	220-240 100-127 *170-280	0,1 0,13 *0,1	0,88 C 0,9 C -	15 8 *15	0,35 A	44	-25...45	80	IND, II, MM, DNC, 100
SLIM 15W 350mA HPFU IP (K2I64)							-25...45	80	IND, II, MM, 100

Type/s	supply voltage (V) [1]	supply current (A) [1]	Power Factor	Output Power (W) [1]	SEC output	U_{OUT} (V)	ta (°C)	tc (°C) [2]	Use [3]
SLIM 15W 350mA HPFU OF (K2H46), SLIM 15W 350mA HPFU OFM (K2H47)							-	80	OF, OFM
SLIM 14W 500mA HPFU (K2H48)	220-240 100-127 *170-280	0,1 0,1 *0,1	0,88 C 0,89 C -	14 6 *14	0,5 A	29	-25...45	80	IND, II, MM, DNC, 100
SLIM 14W 500mA HPFU IP (K2I65)							-25...45	80	IND, II, MM, 100
SLIM 14W 500mA HPFU OF (K2H49), SLIM 14W 500mA HPFU OFM (K2H50)							-	80	OF, OFM
SLIM 11W 700mA HPFU (K2H51)	220-240 100-127 *170-280	0,1 0,1 *0,09	0,87 C 0,89 C -	11 6 *11	0,7 A	18	-25...45	80	IND, II, MM, DNC, 100
SLIM 11W 700mA HPFU IP (K2I66)							-25...45	80	IND, II, MM, 100
SLIM 11W 700mA HPFU OF (K2H52), SLIM 11W 700mA HPFU OFM (K2H53)							-	80	OF, OFM
SLIM 13W 24V HPFU (K2H54)	220-240 100-127 *170-280	0,08 0,085 *0,09	0,88 C 0,9 C -	13 6 *13	24 V	25	-25...45	80	IND, II, MM, DNC, 100
SLIM 13W 24V HPFU IP (K2I67)							-25...45	80	IND, II, MM, 100
SLIM 13W 24V HPFU OF (K2H55), DC 13W 24V SLIM/U OFM (K2H56)							-	80	OF, OFM
SLIM 13W 12V HPFU (K2H57)	220-240 100-127 *170-280	0,08 0,085 *0,09	0,88 C 0,9 C -	13 6 *13	12 V	13	-25...45	80	IND, II, MM, DNC, 100
SLIM 13W 12V HPFU IP (K2I68)							-25...45	80	IND, II, MM, 100
SLIM 13W 12V HPFU OF (K2H58), DC 13W 12V SLIM/U OFM (K2H59)							-	80	OF, OFM

Notes: The Kxxxx code can replace the type reference. [1] - value with a.c. (50-60 Hz or 50/60 Hz) or *d.c. supply. [2] - tc is measured on the top of C2 or C2A or C14 for OF models; [3] – Classification: IND= independent, OF= built-in model without enclosure, OFM= built-in model with Mylar foil, II= class II; IP65=case IP65, for indoor use only; MM=suitable for direct mounting on normally flammable surfaces; DNC= DO NOT COVER; 100= The products have an overheating protection (C.5.a type).

Connection		DC SLIM/U models	DC SLIM/U IP65 models, SLIM HPFU IP models
Supply	PRI	screw terminals 0,75-2,5 mm² or screw-less terminals 0,75-1,5 mm²	tails H03VVH2-F 2x0,75 mm^2
Load	SEC	screw terminals 0,5-2,5 mm² or screw-less terminals 0,5-1,5 mm²	tails H05V2-K 0,5 mm^2

Additional information	
Use	Independent or built-in for ordinary luminaire

Features	For LED; short-circuit proof type; impulse withstand category II; pollution degree 2; material group IIIa; thermal protection protection (C.5.a) at 100 °C, the heating tests for OF models have been performed using the same enclosure of independent models. SLIM HPFU IP models are derived from SLIM HPFU models with a different enclosure and tails for indoor use only. 12,5 W for DC 10W 8V SLIM/U IP65 models, 14 W for DC 11W 700mA SLIM/U models, DC 12W 300mA SLIM/U models, SLIM 11W 700mA HPFU models, SLIM 11W 700mA HPFU IP, 16 W for SLIM 13W 12V HPFU models, SLIM 13W 12V HPFU IP, SLIM 13W 24V HPFU models, SLIM 13W 24V HPFU IP, DC 13W 12V SLIM/U models, DC 13W 24V SLIM/U models, DC 13W 12V SLIM/U IP65 models, DC 13W 24V SLIM/U IP65 models, DC 15W 350mA SLIM/U models, 17 W for DC 14W 500mA SLIM/U models, SLIM 14W 500mA HPFU models, SLIM 14W 500mA HPFU IP, 17,9 W for SLIM 15W 350mA HPFU models, SLIM 15W 350mA HPFU IP.
d.c. operation	Models suitable for d.c. operation (EL symbol) have been tested in the rated supply range 189-250 V or 196-250 V (extended 170-280 V or 176-275 V) for the specific use in centralized emergency installations; assessment to EN IEC 60598-2-22:2022 used in conjunction with EN IEC 60598-1:2021 has been performed for independent models (for built-in models only Clauses 22.7.2 and 22.7.3 have been assessed).

The creepage distances, clearances and connections of control gears in the final application shall be according to EN 60598-1 or national deviations of the country where installed in the final application.	
INSULATION (B= basic, S= supplementary, R= double or reinforced)	
PRI ↔ SEC	R
Active parts ↔ external surfaces of enclosure for independent models	R
Active parts ↔ bottom side of enclosure for BI models	R
All models are suitable for direct mounting on normally flammable surfaces (IEC/EN 60598-1). Assessment to EN 62493:2015, EN 62493:2022 has been performed. Assessment to EN IEC 62442-3:2022 has been performed.	