

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 ** W ** (* 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

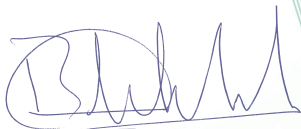
DEKRA hereby grants the right to use the ENEC certification mark.

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 10 January 2024 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 81-117389 REV.1

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



K Xu
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, 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 ** W ** (* means any alphanumeric characters)
Primary voltage	: 110-240 V for a.c., 196-240 V for d.c.
Rated frequency	: 50/60 Hz, 0 Hz
Primary current	: From 0,1 A to 0,24 A for a.c., from 0,08 A to 0,16 A for d.c.
Secondary power	: From 12 W to 25 W
Secondary current	: From 0,35 A to 1,4 A
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

DEKRA test report No. 3509080.290 and 3509080.291 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. 81-117389 which we hereby declare invalid.

The list of components is laid down in test report 3509080.290.

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 intended to supply high power Light Emitting Diodes or LED modules by the following primary voltage: 110-240 V (operating range 99-264 V), 50/60 Hz for WU and WU S models; 220-240 V (operating range 198-264 V), 50/60 Hz for W and W HPF models. The output current is stabilized.

Type/s	ac/*dc Input current (A)	Power factor	Output power (W)	Output current (A)	U _{out} (V)	ta (°C)	tc (°C)	Use [1]
DC 17W 350mA WU S (K2151)	0,22	0,55-0,6 C	12-17	0,35	49	-25...50	80	II, 100
DC 17W 350mA WU S OF (K2715)	*0,11					-	80	OF
DC 20W 500mA WU S (K2152)	0,24	0,55-0,6 C	12-20	0,5	45	-25...45	80	II, 100
DC 20W 500mA WU S OF (K2716)	*0,13					-	80	OF
DC 12W 700mA WU (K2222)	0,23	0,54-0,65 C	12	0,7	21	-25...50	70	II, 100
DC 12W 700mA WU OF (K2238)	*0,08					-	80	OF
DC 17W 700mA WU (K2239)	0,22	0,6 C	12-17	0,7	27	-25...50	70	II, 100
DC 17W 700mA WU OF (K2717)	*0,11					-	80	OF
DC 22W 1050mA WU (K2240)	0,23	0,6 C	12-22	1,05	25	-25...45	75	II, 100
DC 22W 1050mA WU OF (K2718)	*0,14					-	80	OF
DC 18W 1400mA WU (K2721)	0,23	0,54-0,6 C	12-18	1,4	15	-25...45	80	II, 100
DC 18W 1400mA WU OF (K2722)	*0,12					-	80	OF
DC 17W 700mA W (K2017)	0,17	0,6 C	17	0,7	27	-25...50	70	II, 100
DC 17W 700mA W OF (K2719)	*0,11					-	80	OF
DC 22W 1050mA W (K2031)	0,21	0,6 C	22	1,05	24	-20...45	75	II, 100
DC 22W 1050mA W OF (K2720)	*0,14					-	80	OF
DC 18W 350mA W HPF (K2703)	0,1	0,98	18	0,35	59	-20...45	70	II, 100
DC 18W 350mA W HPF OF (K2704)	*0,12					-	80	OF
DC 16W 400mA W HPF (K2828)	0,1	0,97	16	0,4	59	-20...45	70	II, 100
DC 16W 400mA W HPF OF (K2829)						-	80	OF
DC 20W 500mA W HPF (K2705)	0,11	0,98	20	0,5	59	-20...45	70	II, 100
DC 20W 500mA W HPF OF (K2706)	*0,13					-	80	OF
DC 25W 600mA W HPF (K2707)	0,13	0,98	25	0,6	59	-20...45	75	II, 110
DC 25W 600mA W HPF OF (K2708)	*0,16					-	80	OF
DC 25W 700mA W HPF (K2709)	0,13	0,98	25	0,7	48	-20...45	75	II, 110
DC 25W 700mA W HPF OF (K2710)	*0,16					-	80	OF
DC 23W 900mA W HPF (K2711)	0,12	0,98	23	0,9	40	-20...45	70	II, 110
DC 23W 900mA W HPF OF (K2712)	*0,15					-	80	OF
DC 22W 1050mA W HPF (K2713)	0,12	0,98	22	1,05	35	-20...45	70	II, 110
DC 22W 1050mA W HPF OF (K2714)	*0,14					-	80	OF

Notes: Kxxxx can replace the type. [1] – II = independent, class II, IP20; OF = built-in open frame with tc measured on C2 or C14A; 100-110= overheating protection (C.5.a type)

Connection

Supply	PRI	Screw terminal 0,75-2,5 mm ²
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Load	SEC	Screw terminal 0,75-2,5 mm ²
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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; pollution degree 2; material group IIIa. The material of enclosure was tested for Glow-wire at temperature of 750-960 °C with favourable result. Suitable for direct mounting on normally flammable surfaces according to EN 60598-1 at tc ≤ 70 °C for DC 22W 1050mA W, DC 22W 1050mA WU, at tc ≤ 60 °C for DC 22W 1050mA W HPF, DC 23W 900mA W HPF, DC 25W 700mA W HPF, DC 25W 600mA W HPF, at declared tc for other models. Total circuit power: 15 W for DC 12W 700mA WU models, 18 W for 16W 400mA W HPF models, 19 W for DC 17W 350mA WU S, DC 17W 700mA WU, DC 17W 700mA W, DC 18W 350mA W HPF models, 22 W for DC 18W 1400mA WU, DC 20W 500mA WU S, DC 20W 500mA W HPF models, 25 W for DC 22W 1050mA WU, DC 22W 1050mA W, DC 22W 1050mA W HPF models, 26 W for DC 25W 600mA W HPF, DC 25W 700mA W HPF, DC 23W 900mA W HPF models.
DC operation	All models out of 16 W models are suitable for d.c. operation (EL symbol) and they have been tested in the rated supply range 196-240 V for the specific use in centralized emergency installations (extended range 176-264 V); 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 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 PRI ↔ SEC	R
Between active parts ↔ the external surfaces of enclosure	R
Assessment to EN 62493:2015, EN 62493:2015/A1:2022 has been performed.	
Assessment of lighting equipment in household and similar electrical appliances according to Clauses 8.1.4, 19.11.4, 22.5, 22.27, 22.42, 24.1.1, 24.1.2, 29, 30.2.3, 30.2.4 of EN 60335-1:2012, A11:2014, A13:2017, A1:2019, A14:2019, A2:2019; A15:2021 has been performed.	
Assessment to EN IEC 62442-3:2022 has been performed.	