

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) : ECO FLAT ** (*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 13 March 2024 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 81-126213 REV.1

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



K. Lin
Certification Manager

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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)	: ECO FLAT ** (*means any alphanumeric characters)
Primary voltage	: 220-240 V a.c.
Rated frequency	: 50/60 Hz
Primary current	: From 0,06 to 0,22 A
Secondary power	: From 0,09 to 1,05 A
Secondary current	: From 3,8 to 42 W
Classification	: Independent, Built-in
Type of load	: LED modules, power LED

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 reports No. 3509080.570 and 3509080.571 are laid down in DEKRA test file 35090800.

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

This certificate replaces certificate No. 81-126213 which we hereby declare invalid.

The list of components is laid down in test report 3509080.570 and 3509080.571.

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 controlgears for LED modules with stabilized output current; the DIP switch options are detailed in the technical specification and in the marking plates. All models have SELV output.									
Type/s	PRI voltage (V)	PRI Current (A)	Power factor	Output power (W)	Output Current (A) [1]	U _{OUT} (Vdc)	ta (°C)	tc (°C)	Use [2]
ECO FLAT 40W 800/900/950/1050	220-240	0,22	0,95 (Pout>28 W)	33,6-42	0,8-1,05	59	-20...45	95	110
ECO FLAT 40W 900/950/1000/1050	220-240	0,22	0,95 (Pout>28 W)	37,8-42	0,9-1,05	59	-20...45	95	110
ECO FLAT 30W 550/600/700/750	220-240	0,17	0,95 (Pout>22 W)	23,1-31,5	0,55-0,75	59	-20...50	85	110
ECO FLAT 21W 350/400/450/500	220-240	0,11	0,95 (Pout>18 W)	14,7-21	0,35-0,5	59	-20...50	80	110
ECO FLAT 15W 250/275/325/350	220-240	0,08	0,95 (Pout>10 W)	10,5-14,7	0,25-0,35	59	-20...50	75	110
ECO FLAT 10W 90/140/190/240	220-240	0,06	0,93 C (Pout>8 W)	3,8-10,1	0,09-0,24	59	-20...50	80	110
Notes: [1] – Different values settable by DIP switch selection. [2] – 110=the products have an overheating protection (C.5.e) and comply with temperature limit of EN 60598-1.									

Connections		
Input supply	PRI	screwless terminal 0,5...1,5 mm ² (0,75...1,5 mm ² for independent models)
Output load	SEC	screwless terminal 0,5...1,5 mm ²
Additional information		
Use	All models are suitable for ordinary luminaire, Class I or Class II, up to 2000 m above sea level; the cable retainer allows a protection for class II independent use; without it the controlgear is to built-in with double insulation.	
Features	For LED; stabilized output current; 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 750-850 °C. Total circuit power: 47 W for ECO FLAT 40W 800/900/950/1050 and ECO FLAT 40W 900/950/1000/1050, 36 W for ECO FLAT 30W 550/600/700/750, 24 W for ECO FLAT 21W 350/400/450/500, 17 W for ECO FLAT 15W 250/275/325/350, 12 W for ECO FLAT 10W 90/140/190/240.	
The creepage distances, clearances and connections of control gears 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)	independent models	BI models
Between active parts ↔ external touchable parts	R	B
Between active parts ↔ bottom side of the enclosure	R	R
Between PRI ↔ SEC	R	R
Assessment to EN 60598-2-2:2012 used in conjunction with EN IEC 60598-1:2021 has been performed. All models are suitable for direct mounting on normally flammable surfaces (EN IEC 60598-1:2021). Assessment to EN 62493:2015, EN 62493:2015/A1:2022 has been performed. Assessment to EN IEC 62442-3:2022 has been performed.		