

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 ** (* 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.

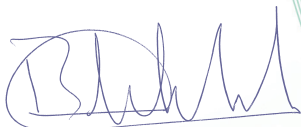
Compliance with the requirements of this Standard carries a presumption of conformity with the essential safety requirements of the Low voltage directive (LVD) 2014/35/EU.

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 4 February 2026 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 81-126213 REV.3

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



Miranda Zhou
Certification Manager

© Integral publication of this certificate is allowed

ACCREDITED BY THE
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)	: ECO ** (* means any alphanumeric characters)
Primary voltage	: 220-240 V for a.c., 196-250 V for d.c.
Nature of supply	: alternate current, direct current
Rated frequency	: 50/60 Hz, 0 Hz
Primary current	: From 0,06 to 0,22 A for a.c., 0,26 A for d.c.
Secondary power	: From 0,09 to 1,05 A
Secondary current	: From 2,7 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 documented in DEKRA test file 351015300.

Additional information

Above statement reflects the information shown in the Summary of Testing, document reference No. 3510153.262EU-1, on which this Certificate is based.

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

This certificate replaces certificate No. 81-126213 REV.2 which we hereby declare invalid.

The list of components is laid down in test report 3510153.262.

Conclusion

The examination has confirmed that all requirements were met.

Factory location

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

General product information and other remarks:									
The devices are controlgears for LED modules with stabilized output current (CC) settable by DIP switch selection. All models have SELV output.									
Type/s	PRI voltage (V) [1]	Supply current (A)	Power factor	Rated output power (W)	Output Current (A)	U _{OUT} (Vdc)	ta (°C)	tc (°C)	Use [4]
ECO FLAT 10W 90/140/190/240	220-240	0,06	0,6 C-0,98 (0,93C@Pout≥8 W)	2,7-10,1	0,09-0,24	59	-20...50	80	110
ECO FLAT 15W 250/275/325/350	220-240	0,08	0,91 C-0,98 (0,95@Pout≥10 W)	7,5-14,7	0,25-0,35	59	-20...50	75	110
ECO FLAT 21W 350/400/450/500	220-240	0,11	0,85 C-0,98 (0,95@Pout≥18 W)	10,5-21	0,35-0,5	59	-20...50	80	110
ECO FLAT 30W 550/600/700/750	220-240	0,17	0,92 C-0,98 (0,95@Pout≥22 W)	16,5-31,5	0,55-0,75	59	-20...50	85	110
ECO FLAT 40W 800/900/950/1050	220-240	0,22	0,95-0,98	24-42	0,8-1,05	59	-20...45	95	110
ECO FLAT 40W 900/950/1000/ 1050	220-240	0,22	0,95-0,98	27-42	0,9-1,05	59	-20...45	95	110
ECO PRO FLAT 40	220-240 176-275*	0,21 0,26*	0,67 C-0,98 (0,95@Pout≥17 W)	4,5-40	0,3-1,05	59	-20... 40/45 [2]	80	110
ECO PRO FLAT 40 OF, ECO PRO FLAT 40 AOF							-	85 [3]	OF

Notes: [1] – a.c. supply (50/60 Hz), *d.c. supply (0 Hz). [2] – ta=40 °C for independent; ta=45 °C for built-in. [3] – tc on the top of C5. [4] – 110=the products have an overheating protection (C.5.a for ECO PRO FLAT 40, C.5.e for other models); OF= built-in model without enclosure.

Connections		ECO PRO FLAT 40	ECO FLAT models
Input supply	PRI	Terminals 0,2...1,5 mm ² (0,75...1,5 mm ² for independent models)	Terminals 0,5...1,5 mm ² (0,75...1,5 mm ² for independent models)
Output load	SEC	Terminals 0,2...1,5 mm ²	Terminals 0,5...1,5 mm ²
Additional information			
Use	Independent (only with auxiliary cable retainer) and built-in for ordinary luminaire; up to 2000 m above sea level.		
Features	All models have the following features: for LED; stabilized output current (CC); multiple value load; short-circuit proof type; impulse withstand category II; Pollution degree 2; Material group IIIa. Total circuit power: 45 W for ECO PRO FLAT 40; 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.		

DC operation	ECO PRO FLAT 40 is suitable for d.c. operation (EL symbol) and it has been tested in the rated supply 196-250 V for the specific use in centralized emergency installations (extended range 176-275 V), not intended for use in luminaires for high-risk task area lighting. Assessment to EN IEC 60598-2-22:2022 used in conjunction with EN IEC 60598-1:2021 has been performed for independent model (for built-in model only Clauses 22.7.2, 22.7.3, 22.19 and Annex 2 have been assessed).
OF models have been tested in the same enclosure and potting as the final application (ECO PRO FLAT 40). The creepage distances, clearances and connections of control gears shall be according to EN IEC 60598-1 or national deviations of the country where installed in the final application:	
INSULATION (B= basic, S= supplementary, R= double or reinforced)	
Between active parts ↔ external touchable parts of the enclosure	R
Between PRI ↔ SEC	R
<p>Assessment to EN IEC 60598-2-22:2022 used in conjunction with EN IEC 60598-1:2021 has been performed.</p> <p>All models are suitable for direct mounting on normally flammable surfaces.</p> <p>Assessment to EN 62493:2015, EN 62493:2015/A1:2022 has been performed.</p> <p>Assessment to EN IEC 62442-3:2022 has been performed.</p>	