

# 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) : LCV 120W 24V, LCV 180W 24V, LCV 30W 24V, LCV 60W 24V, LCV 75W 24V  
and LCV 90W 24V

The product and any acceptable variation thereto is 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 the standard EN 61347-2-13:2014, EN 61347-2-13:2014/A1:2017 and EN 61347-1:2015
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2033016

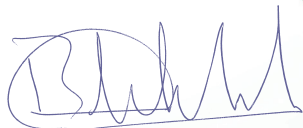
DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

This certificate is issued on 13 September 2019 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 81-110119

DEKRA Certification B.V.



B.T.M. Holtus  
Managing Director



S. Lehner  
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)	: LCV 120W 24V, LCV 180W 24V, LCV 30W 24V, LCV 60W 24V, LCV 75W 24V and LCV 90W 24V
Primary voltage	: 220-240 V
Nature of supply	: alternate current
Rated frequency	: 50/60 Hz
Power factor	: 0,95
Type of load	: LED modules, power LED
Type of thermal protection	: 110
Classification	: Independent

**Product data – type LCV 120W 24V**

Primary current	: From 0,54 to 0,7 A
Rated maximum temperature (tc)	: 90 °C
Output constant voltage	: 24 V

**Product data – type LCV 180W 24V**

Primary current	: 0,9 A
Rated maximum temperature (tc)	: 95 °C
Output constant voltage	: 24 V

**Product data – type LCV 30W 24V**

Primary current	: 0,16 A
Rated maximum temperature (tc)	: 80 °C
Output constant voltage	: 24 V

**Product data – type LCV 60W 24V**

Primary current	: 0,32 A
Rated maximum temperature (tc)	: 85 °C
Output constant voltage	: 24 V

**Product data – type LCV 75W 24V**

Primary current	: 0,36 A
Rated maximum temperature (tc)	: 85 °C
Output constant voltage	: 24 V

**Product data – type LCV 90W 24V**

Primary current	: 0,45 A
Rated maximum temperature (tc)	: 90 °C
Output constant voltage	: 24 V

**TESTS****Test requirements**

EN 61347-2-13:2014

EN 61347-2-13:2014/A1:2017  
EN 61347-1:2015

**Test result**

The test results are laid down in DEKRA test file 350033600.

**Additional information**

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

DEKRA test report No. 2102837.50 is laid down in DEKRA test file 350033600; they contain test results and critical component list.

**Conclusion**

The examination proved that all requirements were met.

**Factory location**

The factory location is registered with the number 15204.

General product information:							
The devices are controlgears for LED modules with stabilized output voltage, with SELV output. The input voltage is 220-240 V 50/60 Hz. The Kxxxx code can replace the type reference according to the following tables:							
Type/s	PRI Current [A]	Output Power (W)	Sec Parameter (A)	ta (°C)	tc (°C)	Thermal Protection (°C) [1]	Symbol [2]
LCV 180W 24V or K2E46	0,9	180	24 V	-20...50	95	110	II
LCV 120W 24V or K2E45	0,54-0,7	120	24 V	-20...45	90	110	II
LCV 90W 24V or K2E44	0,45	90	24 V	-15...45	90	110	II
LCV 75W 24V or K2E43	0,36	75	24 V	-15...45	85	110	II
LCV 60W 24V or K2E42	0,32	60	24 V	-20...50	85	110	II
LCV 30W 24V or K2E41	0,16	30	24 V	-15...45	80	110	II

Notes: [1] –The products have an overheating protection (C.5.e electronic type) and comply with temperature limit of clause 4.16.2 of EN 60598-1:04 ("F" triangle marking), EN 60598-1:2015/A1:2018. [2] – Symbols: II=class II.

Connections		
Input supply	PRI (N, L)	0,75-1,5 mm <sup>2</sup> terminal
Output load	+, -	0,75-1,5 mm <sup>2</sup> terminal; LCV 180W 24V has double terminals

Additional information		
All models have the following features: multiple value load; short-circuit proof type; impulse withstand category II; Pollution degree 2 (Normal Pollution); Material group IIIa. LCV 60W 24V, LCV 75W 24V, LCV 90W 24V, LCV 120W 24V, LCV 180W 24V have additional potting for heating improvement.		
INSULATION: B= basic, S= supplementary, D= double or reinforced	Input (IN)	Output (+ -)
Input (IN)	-	D
Output (+ -)	D	-
LCV 30W 24V, LCV 60W 24V, LCV 75W 24V, LCV 90W 24V, LCV 120W 24V are suitable for direct mounting on normally flammable surfaces (EN 60598-1:2015, VDE 0710 T14 for "MM" triangle marking).		