

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-VPS MD (series)

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

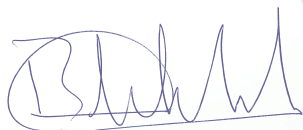
DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

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 22 October 2020 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 81-115984

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



F.S. Strikwerda
Certification Manager

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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-VPS MD (series)
Primary voltage	: 220-240 V ac
Rated frequency	: 50/60 Hz
Primary current	: From 0,25 to 0,45 A
Type of load	: LED modules
Secondary voltage	: From 12 to 24 V
Secondary power	: From 27 to 80 W
Classification	: Independent

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

The list of components is laid down in test report 2102918.50.

Conclusion

The examination proved that all requirements were met.

Factory location

Zhuhai Shengchang Electronics Co., Ltd.
Building 3, No.19, Yongtian Road, Qianshan Industrial Zone
519070 Zhuhai Guangdong, China

General product information: The devices are controlgears for LED modules with SELV output. The devices have a stabilized output voltage and they are independent. The Kxxxx code can replace the type according to the following table:

Type/s	Primary voltage [1]	Primary Current (A) [2]	Sec. Power [W]	Sec. Voltage [V]	t _a (°C) [3]	t _c (°C)	Thermal Protection n (°C) [4]	Classification [5]
DC 45W 24V VPS MD or K2844	220-240 V (50/60 Hz)	0,25	27-45*	24	-40..50*-60	90	100	IND, II, IP20, MM
DC 45W 12V VPS MD or K2G15	220-240 V (50/60 Hz)	0,26	27-45*	12	-40..50*-60	90	100	IND, II, IP20, MM
DC 80W 24V VPS MD or K2845	100-240 V (50/60 Hz)	0,44	48-80*	24	-40..40*-60	70	110	IND, I, IP66, MM
DC 80W 12V VPS MD or K2G16	100-240 V (50/60 Hz)	0,45	48-80*	12	-40..40*-60	70	110	IND, I, IP66, MM

Notes: [1] – The models have 162-264 V operational range with U_{out}=13/25 V. [2] – Value at max. rated power. [3] – Temperature derating: t_a is linearly interpolated between the Sec. Power values. [4] – The products have an overheating protection (C.5.a type). [5] – IND=Independent, IPxx= IP20 or case IP66; I=class I; II=class II; MM= suitable for direct mounting on normally flammable surfaces (EN 60598-1:2014, AMD1:2017, VDE 0710 T14 for "MM" triangle marking).

Connections	DC 45W 24V VPS MD, DC 45W 12V VPS MD	DC 80W 24V VPS MD, DC 80W 12V VPS MD
Supply (PRI)	screw terminals, 0,75-4,0 mm ²	Tail, H05RN-F 3G1,0 mm ²
Load (SEC)	screw terminals, 0,4-4,0 mm ²	Tail, H05RN-F 3x1,0 mm ²
Additional information		
All models with the enclosure fulfil the requirements for: Impulse withstand category II; Pollution degree 2; Material group IIIa; protection against output short circuit. All models have draught-proof enclosure; metal enclosure for 80W models. All models work can be dimmed by leading edge and trailing edge TRIAC dimmers.		
INSULATION	PRI	SEC
PRI	-	double
SEC	double	-
In the final application the connections of external wiring shall be according to IEC 60598-1 or national deviations of the country where installed. Creepage distances and clearances shall comply with the requirements of IEC/EN 60598-1 when the device is installed in the final application:		
INSULATION: B=Basic; S=Supplementary; R=Double/Reinforced	Between active parts and external side of enclosure	
DC 45W 24V VPS MD, DC 45W 12V VPS MD	R	
DC 80W 24V VPS MD, DC 80W 12V VPS MD	B	