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)	:	VEGA IP67 (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(s) EN 61347-2-13:2014, EN 61347-2-13:2014/A1:2017, EN 61347-1:2015, EN 62384:2006 and EN 62384:2006/A1:2009
- 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 2 September 2021 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 81-120516

DEKRA Certification B.V.

B.T.M. Holtus
Managing Director

R Zhou
Certification Manager

ACCREDITED BY THE
DUTCH ACCREDITATION
COUNCIL

PRODUCTS
RvA C 001

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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)	:	VEGA IP67 (series)
Primary voltage	:	100-240V/277V or 100-277V
Nature of supply	:	alternate current
Rated frequency	:	50/60 Hz
Primary current	:	From 0,4 to 2,8 A
Output current	:	From 0,1 to 6,67 A
Output power	:	From 75 to 200 W
Type of load	:	LED modules, power LED
Classification	:	Independent

TESTS

Test requirements

EN 61347-2-13:2014
EN 61347-2-13:2014/A1:2017
EN 61347-1:2015
EN 62384:2006
EN 62384:2006/A1:2009

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. 3500336.330 and 3500336.331 are laid down in DEKRA test file 350033600; they contain test results; DEKRA test report No. 3500336.330 contains critical component list.

Conclusion

The examination proved that all requirements were met.

Factory locations

Huizhou MOSO Energy Technology Co., Ltd.
Hongda International Industrial City, Luoyang Town, Boluo County
516100 Huizhou City Guangdong, China

Moso Power Supply Technology Co., Ltd.
Sangtai Industrial Park, Guanwai Xiaobaimang Songbai Road, Nanshan District,
518108 Shenzhen Guangdong, China

General product information:

Products covered by this report are class I, IP67, independent LED drivers with metal enclosure filled with potting material. The LED drivers are constant current output types and the output current can be adjusted; models with dimming cable are multi dimmable (0-10Vdc/1-10Vdc, PWM and timer dimming); models without dimming cable have resistor adjusting for output current. All models have the same construction and PCB layout, they are only different in the turns of winding in transformer and parameter of some components for different output and different dimming functions. Common values to all models: ta=50 °C at 100-200 V, ta=60 °C at 220-277 V, tc=90 °C.

Type/s	ac input current (A) [1]	Power factor	Output Power (W)	Output Current (A)	U_{0UT} (Vdc)	Use [2]
VEGA 75/530-1050 FPD IP67	0,4-1,1	0,95	75	0,1-1,05	120	SELV, 110, DIM
VEGA 75/530-1050 IP67				0,53-1,05		SELV, 110, RA
VEGA 75/1340-2670 FPD IP67				0,27-2,67	50	SELV, 110, DIM
VEGA 75/1340-2670 IP67				1,34-2,67		SELV, 110, RA
VEGA 105/1250-2500 FPD IP67	0,5-1,5	0,95	105	0,25-2,5	70	SELV, 110, DIM
VEGA 105/1250-2500 IP67				1,25-2,5		SELV, 110, RA
VEGA 105/530-1050 FPD IP67				0,1-1,05	170	110, DIM
VEGA 105/530-1050 IP67				0,53-1,05		110, RA
VEGA 120/1750-3500 FPD IP67	0,6-1,7	0,95	120	0,35-3,5	50	SELV, 110, DIM
VEGA 120/1750-3500 IP67				1,75-3,5		SELV, 110, RA
VEGA 120/530-1050 FPD IP67				0,1-1,05	170	110, DIM
VEGA 120/530-1050 IP67				0,53-1,05		110, RA
VEGA 150/1800-3600 FPD IP67	0,7-2	0,95	150	0,36-3,6	70	SELV, 110, DIM
VEGA 150/1800-3600 IP67				1,8-3,6		SELV, 110, RA
VEGA 150/2700-5400 FPD IP67				0,54-5,4	50	SELV, 110, DIM
VEGA 150/2700-5400 IP67				2,7-5,4		SELV, 110, RA
VEGA 150/530-1050 FPD IP67				0,1-1,05	240	110, DIM
VEGA 150/530-1050 IP67				0,53-1,05		110, RA
VEGA 150/750-1500 FPD IP67				0,15-1,5	170	110, DIM
VEGA 150/750-1500 IP67				0,75-1,5		110, RA
VEGA 200/2500-5000 FPD IP67	0,9-2,8	0,95	200	0,5-5	70	SELV, 110, DIM
VEGA 200/2500-5000 IP67				2,5-5		SELV, 110, RA
VEGA 200/3340-6670 FPD IP67				0,67-6,67	50	SELV, 110, DIM
VEGA 200/3340-6670 IP67				3,34-6,67		SELV, 110, RA
VEGA 200/530-1050 FPD IP67				0,1-1,05	300	110, DIM
VEGA 200/530-1050 IP67				0,53-1,05		110, RA
VEGA 200/1050-2100 FPD IP67				0,21-2,1	160	110, DIM
VEGA 200/1050-2100 IP67				1,05-2,1		110, RA

Notes: [1] – Supply: 100-240/277 V 50/60 Hz or 100-277 V 50/60 Hz; [2] – SELV=SELV output; 110=the products have an overheating protection (C.5.a automatic resetting type) and comply with temperature limit of EN 60598-1:2015/A1:2018; DIM=dimmable; RA=resistor adjusting for output current.

Connections

Input supply	PRI	Connecting lead (tails) 3x 1 mm²
Dimming control	DIM	Connecting lead (tails) 2x 0,326 mm²
Resistor adjusting	Io ADJ	Variable resistor
Output load	SEC	Connecting lead (tails) 2x 1 mm²

Additional information

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.

IINSULATION: B= basic, S= supplementary, D= double or reinforced	PRI	DIM (if present)	Io ADJ (if present)	SEC
PRI	-	D	D	D

DIM (if present)	D	-	-	S
Io ADJ (if present)	D	-	-	-
SEC	D	S	-	-

As the LED drivers have IP67 enclosure, input/output/dimming tails should be connected in terminal block or enclosure which is IP67 or better. The creepage distances, clearances and connections of control gears in the final application shall be according to IEC 60598-1 or national deviations of the country where installed in the final application. For SELV with Uout > 60Vdc, at least basic insulation according to Uout should be maintain between output circuit and accessible parts after installation or at least one pole of the conductive parts in the SELV circuit shall be insulated by insulation capable of withstanding a test voltage of 500 V r.m.s. for 1 min.

INSULATION: B= basic, S= supplementary, D= double or reinforced

Between lve parts ↔ external touchable parts	B
Between SEC ↔ external touchable parts	B
between output circuit of 60 V<Uout≤120 V d.c. models ↔ accessible parts after installation or at least one pole of the conductive parts in the SELV circuit shall be insulated by insulation capable of withstanding a test voltage of 500 V r.m.s. for 1 min	B according to Uout

Assessment to EN 60598-1:2015/A1:2018.
Assessment to EN 62493:2015 has been performed.
All models are suitable for direct mounting on normally flammable surfaces as in EN 60598-1:2015.