

# 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) : ATON (series)

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 25 March 2024 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 81-124825 REV.1

DEKRA Certification B.V.



B.T.M. Holtus  
Managing Director



K Xu  
Certification Manager

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DUTCH ACCREDITATION  
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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)	: ATON (series)
Primary voltage	: 220-240 V for a.c., 196-250 V for d.c
Rated frequency	: 50-60 Hz or 50/60 Hz, 0 Hz
Primary current	: From 0,12 A to 0,24 A for a.c., from 0,14-0,26 A for d.c.
Secondary power	: From 5 W to 40 W
Secondary current	: From 0,125 A to 1,4 A
Type of load	: LED modules, power LED
Classification	: Independent, built-in

**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 350964600.

**Additional information**

DEKRA test report No. 3500336.412 and 3500336.413 are laid down in DEKRA test file 350033600; they contain test results.

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

This certificate replaces certificate No. 81-124825 which we hereby declare invalid.

The list of components is laid down in test report 3500336.412.

**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 electronic SELV controlgears, intended to supply high power Light Emitting Diodes or LED modules. The devices have a stabilized output current. The output (SEC) is dimmable by DALI or touch dimming only for DALI models; codes 151xxx have AM dimming. Primary voltage: 220-240 V 50-60 or 50/60 Hz, 196-250 V 0 Hz. The Kxxxx code can replace the type reference according to the following tables:

Type/s	Primary Current (A) [1]	Power Factor (Po>7,5 W)	Output Power (W)	Output current [A] [2]	Uout (V)	ta (°C)	tc (°C) [4]	Symbol [5]					
ATON 30/250-700 (K2963)	0,16 0,19*	0,96 (Po>7,5 W)	13-30	0,25 -0,7 [2]	59	-25..45	85	IND, I, PE, 110					
-25..50						PE, 110							
-						80	OF, PE						
ATON 30/250-700 BI (K2605)	0,16 0,19*	0,96 (Po>7,5 W)	21-30	0,7 -1,4 [2]	59	-25..45	80	IND, I, PE, 110					
-						80		OF, PE					
ATON 30/250-700 OF (K2606)						-	80	OF, PE					
ATON 30/700-1400 (K2964)	0,16 0,19*	0,96 (Po>7,5 W)	13-30	0,25 -0,7 [2]	59	-25..45	75	IND, I, PE, 110					
-25..50						85		IND, II, 110I					
-						80	OF, PE						
ATON 30/250-700 DALI cod. 127370 (K2965)	0,16 0,19*	0,96 (Po>7,5 W)	13-30	0,25 -0,7 [2]	59	-25..45	85	IND, I, PE, 110					
ATON 30/250-700 DALI cod. 151370 (K2F40)						-25..50		85	PE, 110				
ATON 30/250-700 DALI BI cod. 127372 (K2966)						-	80	DI, 110					
ATON 30/250-700 DALI BI cod. 151372 (K2F41)						-	80	OF, PE					
ATON 30/250-700 DALI OF cod. 127370OF (K2967)						-	80	OF					
ATON 30/250-700 DALI OF cod. 151370OF (K2F42)						-	80	OF					
ATON PRO 22/125-500 (K2E73)						0,12 0,14*	0,9 C-0,95	5,5-22	0,125-0,5 [2]	59	-25..45	75	IND, II, 110
ATON PRO 22/125-500 BI (K2E74)											-25..50		80
ATON PRO 22/125-500 OF (K2E75)											-	80	OF
ATON PRO 30/350-725 (K2E76)						0,19 0,21*	0,95 (Po>6,5 W)	15-32	0,35-0,725 [2]	59	-25..45	80	IND, II, 110
ATON PRO 30/350-725 BI (K2E77)	-25..50	85	DI, 110										
ATON PRO 30/350-725 OF (K2E78)	-	80	OF										
ATON PRO 34/350-725 BI (K2E79)	0,19 0,22*	0,95 (Po>6,5 W)	16,8-34	0,35-0,725 [2]	59	-25..50	85	DI, 110					
ATON PRO 34/350-725 OF (K2E80)						-		80	OF				
ATON PRO 38/150-1050 NFC (K2H04)	0,23 0,25*	0,95 (Po>13 W)	5-38	0,15-1,05 [3]	60	-25..40/45	90	IND, II, 110					
ATON PRO 38/150-1050 NFC BI (K2H05)						-25..45/50		90	DI, 110				
ATON PRO 38/150-1050 NFC OF (K2H06)						-	80	OF					
ATON 38 DALI NFC (K2I16)	0,2 0,25*	0,95 (Po>14 W)	5-38	0,15-1,05 [3]	59	-25..45	75	IND, II, 110					
ATON 38 DALI NFC BI (K2I17)						-25..50		75	DI, 110				
ATON 38 DALI NFC OF (K2I18)						-	80	OF					

ATON PRO 40/300-1050 (K2E81)	0,24 0,26*	0,95 (Po>15 W)	13-40	0,3-1,05 [2]	59	-25..45	90	IND, II, 110
ATON PRO 40/300-1050 BI (K2E82)						-25..45	90	DI, 110
ATON PRO 40/300-1050 OF (K2E83)						-	80	OF

Notes: [1] – Rated value with a.c. or \*d.c. supply. [2] – Different values according to DIP switch selection (see label). [3] – Different values according to NFC setting. [4] – tc is measured on the top of C14 or C15 capacitor for OF models. [5] – IND= IP20 independent; DI= built-in with double insulation to supporting surface; OF= Built-in without enclosure; PE= protective earth; I= class I, II=class II; 110= overheating protection (C.5.a type).

Connections for ATON models			
Input supply	PRI	screwless terminal block 0,75...1,5 mm <sup>2</sup> (for independent models) screwless terminal block 0,5...1,5 mm <sup>2</sup> (for BI and OF models)	
Input for dimming (only for DALI models)	PUSH, DA	screwless terminal block 0,75...1,5 mm <sup>2</sup> (for independent models) screwless terminal block 0,5...1,5 mm <sup>2</sup> (for BI and OF models)	
Output load	SEC	screwless terminal block 0,5...1,5 mm <sup>2</sup>	
Connections for ATON PRO models			
Input supply	PRI	screwless terminal block 0,75...1,5 mm <sup>2</sup> (for independent models) screwless terminal block 0,25...1,5 mm <sup>2</sup> (for BI and OF models) screwless terminal block 0,5...1,5 mm <sup>2</sup> (for ATON PRO 38/150-1050 BI)	
Output load	SEC	screwless terminal block 0,25...1,5 mm <sup>2</sup> screwless terminal block 0,5...1,5 mm <sup>2</sup> (for ATON PRO 38/150-1050)	
Additional information			
Use	Independent or built-in controlgear for ordinary luminaire, up to 2000 m above sea level.		
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 750-960 °C. Total circuit power: 34 W for ATON 30/250-700 model, ATON 30/250-700 DALI models, ATON 30/700-1400, 24 W for ATON PRO 22/125-500 model, 35 W for ATON PRO 30/350-725 model, 37 W for ATON PRO 34/350-725 model, 44 W for ATON PRO 40/300-1050 models, 43 W for ATON 38 DALI NFC and ATON PRO 38/150-1050 NFC models		
DC operation	The products were tested in the nominal range 196-250 V (operative range 176-276 V) according to IEC/EN 61347-2-13 (EL symbol) for the specific use in centralized emergency installations; assessment to EN IEC 60598-2-22 has been performed for independent models (for built-in models only Clauses 22.7.2 and 22.7.3 have been assessed). For ATON 38 DALI NFC models EOF can be setted with different values by DALI port; the setting at maximum value is equivalent to EOF=0,94		
OF models have been tested inside the enclosure of equivalent independent models. 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:			
INSULATION	independent models	BI models	OF models
B= basic, S= supplementary, R= double or reinforced			
PRI ↔ SEC, PUSH (if present) ↔ SEC	R	R	R
PRI ↔ DA (if present), PUSH (if present) ↔ DA (if present)	R (cod. 127xxx) B (cod. 151xxx)	R	R
DA ↔ SEC	S (127xxx) R (151xxx)	S (127xxx) R (151xxx)	S (127xxx) R (151xxx)
active parts ↔ touchable parts	R	B	-
active parts ↔ bottom side of enclosure	R	R	-
Assessment to EN 60598-2-22 used in conjunction with EN 60598-1.			
Assessment to EN 62493 has been performed.			
Assessment to EN IEC 62442-3 has been performed.			
All models out of NFC models are suitable for direct mounting on normally flammable surfaces.			