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ENEC Certification Body registered under ID # 11.

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LICENCE

to use the European Mark



Licence No.: **7590-242**

Date of issue: Wien, 2018 08 24
Rev. No.: 17 Wien, 2024 03 13

OVE the Austrian Electrotechnical Association as signatory to the **"Agreement on the use of a commonly agreed Mark of Conformity for certain electrical equipment complying with European Standards"** hereby grants the right to label the products mentioned hereunder and listed in the Annex with the Mark(s) shown above to the following company

Licensee: **Tridonic GmbH & Co KG**
Färbergasse 15
6851 Dornbirn
Austria

Product: **LED modules for general lighting**

Trade Mark: **TRIDONIC**

Series/Type: **LLE...**

Basis for this given right is the conformity of the products with the requirements of the relevant Standard(s) as listed in the Annex and the fulfilment of articles 8 and 9 of the ENEC-Agreement by the manufacturer. This licence refers to the tested specimen and to all products manufactured strictly identical to the submitted one.

This licence has been issued under the presumption and conditional on the fact that the licensee holds all necessary legal rights with regard to the product presented for testing and certification.

Österreichischer Verband für Elektrotechnik
Head of OVE Certification

T. Neumayer

Digitally signed by T. Neumayer
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Dipl.-Ing. T. Neumayer



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<i>Hersteller Manufacturer</i>	Tridonic Jennersdorf Tridonic GmbH & Co KG Technologiepark 10 8380 Jennersdorf Austria
* <i>Fertigungsstätte(n) Factory location(s)</i>	ID: 87468
* <i>Typenbezeichnung Type reference</i>	LLE 24x ... HV ADV5 ..., LLE 16x ... HV ADV5 ..., LLE 24x ... LV ADV5 ..., LLE 55x ... LV ADV5 ..., LLE 24x ... HE HV ADV5 ..., LLE 24x ... LVD ADV1, LLE 24x ... HO HV ADV1 ..., LLE 24x ... LE HV ADV5 ..., LLE 24x ... LVD HP ADV2, see pages 4 to 11
* <i>Prüfbericht Test Report</i>	TR 66301-0014-01 ECS to TR 66301-0018-01 ECS, TR 66301-0018-01a ECS, TR 66301-0051-01 ECS, TGM-VA EE 35628b ECS, TGM-VA EE 35286i ECS to TGM-VA EE 35286n ECS, TGM-VA EE 37421 ECS, TGM-VA EE 37421f ECS, TGM-VA EE 37421g ECS, MA 39 - K 2018-0299
<i>Nationale Bestimmung(en) National Standard(s)</i>	OVE EN IEC 62031:2020-09-01 OVE EN IEC 62031/A11:2022-08-01
<i>Europannorm(en) European Standard(s)</i>	EN IEC 62031:2020 EN IEC 62031:2020/A11:2021
* <i>Ersatz für Zertifikat Superseded licence</i>	7590-242 Rev. 16 dated 2023 06 16 Items modified are marked with an asterisk (*)
<i>Anmerkung(en) Remark(s)</i>	--

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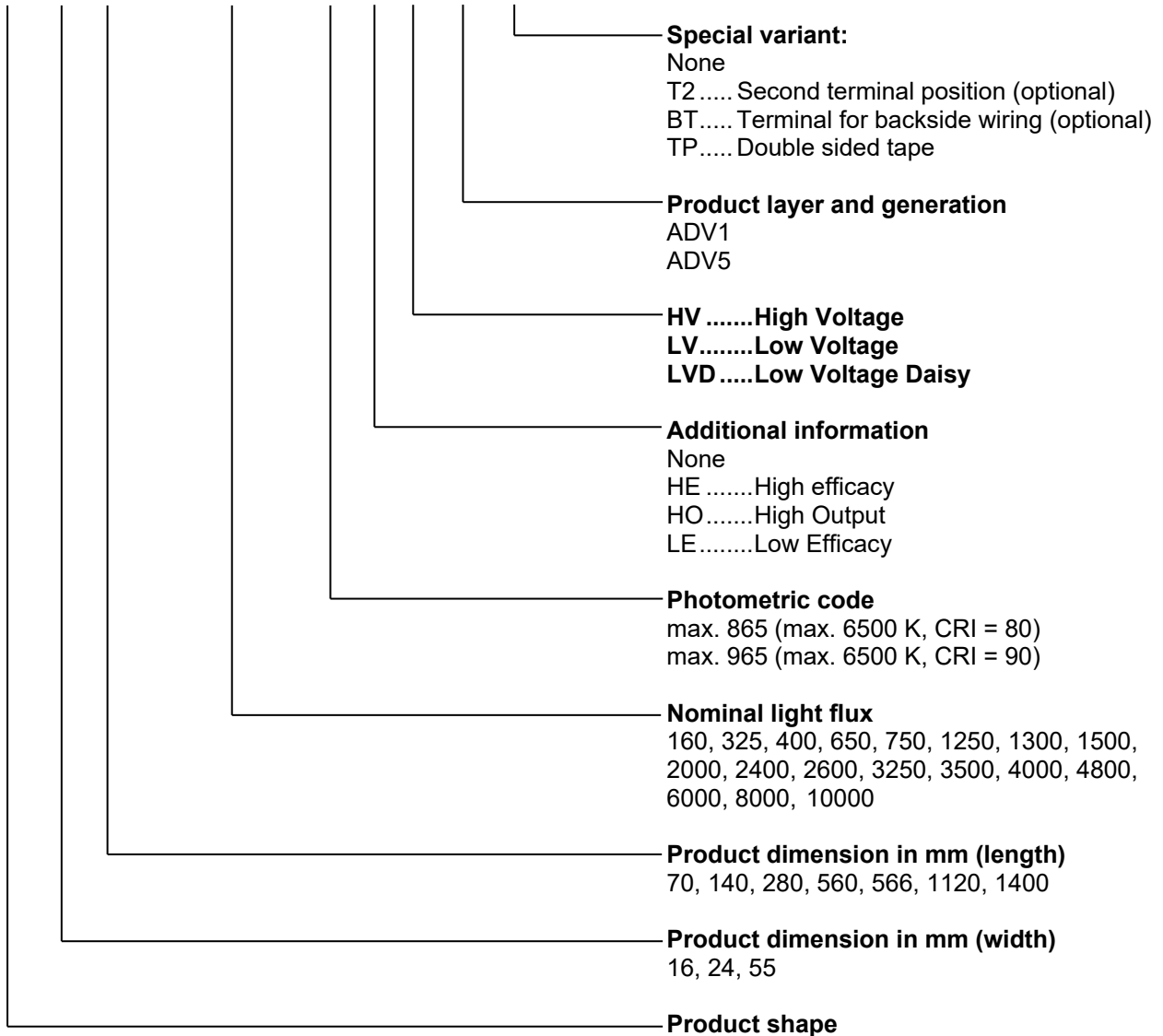
* <i>Nennstrom</i> <i>Rated current</i>	see pages 4 to 11
* <i>Nennleistung</i> <i>Rated power</i>	see pages 4 to 11
* <i>Zulässige Arbeitsspannung</i> <i>Working voltage for insulation</i>	see pages 4 to 11
* <i>Max. Betriebstemperatur tc</i> <i>Rated max. operating temperature tc</i>	see pages 4 to 11
<i>Anschlussart</i> <i>Method of connection</i>	Screwless terminals
<i>Beschreibung des Aufbaus</i> <i>Description of construction</i>	Built-in LED modules for general lighting, constant current type.
* <i>Zusatzinformation</i> <i>Additional information</i>	Classification according EN 62471:2008: RG1 (low risk). for type LLE 24x280mm 2000lm ... LVD HP ADV2 see page 11 TP-variants only for types LLE 24x ... ADV5 ..

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Typecode:

LLE ..x....mmlm



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Typelist:

TRADEMARK / TYPECODE								
TRIDONIC			Supply current	Forward voltage ¹ (V _F)	Rated power ¹	Rated max. Operating Temperature t _c	No. of LEDs	Maximum working voltage for insulation
	Type Reference		[mA]	[V]	[W]	[°C]		[V]
1	LLE 24x70mm 160lm ... HV ADV5 ..	rated	300	2,8	0,9	85	3	440
		max	540	2,9	1,6			
2	LLE 24x140mm 325lm ... HV ADV5 ..	rated	300	5,5	1,7	85	6	440
		max	540	5,7	3,1			
3	LLE 24x280mm 650lm ... HV ADV5 ..	rated	300	11,0	3,3	85	12	440
		max	540	11,4	6,2			
4	LLE 24x560mm 1300lm ... HV ADV5 ..	rated	300	22,0	6,6	85	24	440
		max	540	22,9	12,4			
5	LLE 24x1120mm 2600lm ... HV ADV5 ..	rated	300	44,1	13,2	95	48	440
		max	540	45,7	24,7			
6	LLE 24x1400mm 3250lm ... HV ADV5 ..	rated	300	55,1	16,5	95	60	440
		max	540	57,2	30,9			
7	LLE 24x280mm 650lm ... HE HV ADV5 ..	rated	275	11,1	3,1	85	12	440
		max	540	11,6	6,3			
8	LLE 24x560mm 1300lm ... HE HV ADV5 ..	rated	275	22,2	6,1	85	24	440
		max	540	23,2	12,5			
9	LLE 24x70mm 325lm ... HV ADV5 ..	rated	300	5,5	1,7	85	6	440
		max	540	5,7	3,1			
10	LLE 24x140mm 650lm ... HV ADV5 ..	rated	300	11,0	3,3	85	12	440
		max	540	11,4	6,2			
11	LLE 24x280mm 1250lm ... HV ADV5 ..	rated	300	22,0	6,6	85	24	440
		max	540	22,9	12,4			
12	LLE 24x560mm 2400lm ... HV ADV5 ..	rated	300	44,1	13,2	85	48	440
		max	540	45,7	24,7			
13	LLE 24x1120mm 4800lm ... HV ADV5 ..	rated	300	88,2	26,5	95	96	440
		max	540	91,5	49,4			
14	LLE 24x1400mm 6000lm ... HV ADV5 ..	rated	300	110,2	33,1	95	120	440
		max	540	114,3	61,7			
15	LLE 24x280mm 1250lm ... HE HV ADV5 ..	rated	275	22,2	6,1	85	24	440
		max	540	23,2	12,5			
16	LLE 24x560mm 2400lm ... HE HV ADV5 ..	rated	275	44,4	12,2	85	48	440
		max	540	46,4	25,1			

¹ Typical values at t_p=50°C

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TRADEMARK / TYPECODE								
TRIDONIC			Supply current	Forward voltage ² (UF)	Rated power ²	Rated max. Operating Temperature tc	No. of LEDs	Maximum working voltage for insulation
	Type Reference		[mA]	[V]	[W]	[°C]		[V]
17	LLE 24x280mm 2000lm ... HV ADV5 ..	rated	275	32,6	9,0	95	36	320
		max	540	34,0	18,4			
18	LLE 24x560mm 4000lm ... HV ADV5 ..	rated	275	65,2	17,9	95	72	320
		max	540	68,1	36,8			
19	LLE 24x1120mm 8000lm ... HV ADV5 ..	rated	325	132,3	43,0	95	144	320
		max	540	136,6	73,8			
20	LLE 24x1400mm 10000lm ... HV ADV5 ..	rated	325	165,3	53,8	95	180	320
		max	540	170,8	92,3			
21	LLE 24x280mm 650lm ... LV ADV5 ..	rated	100	33,1	3,3	85	12	60
		max	180	34,3	6,2			
22	LLE 24x560mm 1300lm ... LV ADV5 ..	rated	200	33,1	6,6	85	24	60
		max	360	34,3	12,4			
23	LLE 24x1120mm 2600lm ... LV ADV5 ..	rated	400	33,1	13,3	95	48	60
		max	720	34,3	24,7			
24	LLE 24x1400mm 3250lm ... LV ADV5 ..	rated	500	33,1	16,6	95	60	60
		max	900	34,3	30,9			
25	LLE 24x140mm 650lm ... LV ADV5 ..	rated	100	33,1	3,3	85	12	60
		max	180	34,3	6,2			
26	LLE 24x280mm 1250lm ... LV ADV5 ..	rated	200	33,1	6,6	85	24	60
		max	360	34,3	12,4			
27	LLE 24x560mm 2400lm ... LV ADV5 ..	rated	400	33,1	13,3	85	48	60
		max	720	34,3	24,7			
28	LLE 24x1120mm 4800lm ... LV ADV5 ..	rated	800	33,1	26,6	95	96	60
		max	1440	34,3	49,4			
29	LLE 24x1400mm 6000lm ... LV ADV5 ..	rated	1000	33,1	33,1	95	120	60
		max	1800	34,3	61,9			
30	LLE 24x1120mm 8000lm ... HE HV ADV5 ..	rated	350	133,7	46,8	95	144	320
		max	540	137,8	74,4			

² Typical values at tp=65°C

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TRADEMARK / TYPECODE								
TRIDONIC			Supply current	Forward voltage ³ (UF)	Rated power ³	Rated max. Operating Temperature tc	No. of LEDs	Maximum working voltage for insulation
	Type Reference		[mA]	[V]	[W]	[°C]		[V]
31	LLE 16x140mm 325lm ... HV ADV5 ..	rated	225	8,2	1,8	85	9	400
		max	540	8,6	4,6			
32	LLE 16x280mm 650lm ... HV ADV5 ..	rated	225	16,3	3,7	85	18	400
		max	540	17,2	9,3			
33	LLE 16x560mm 1300lm ... HV ADV5 ..	rated	225	32,6	7,3	85	36	400
		max	540	34,3	18,5			
34	LLE 16x70mm 325lm ... HV ADV5 ..	rated	300	5,5	1,7	85	6	400
		max	540	5,7	3,1			
35	LLE 16x140mm 650lm ... HV ADV5 ..	rated	300	11,0	3,3	85	12	400
		max	540	11,4	6,2			
36	LLE 16x280mm 1250lm ... HV ADV5 ..	rated	300	22,0	6,6	85	24	400
		max	540	22,9	12,4			
37	LLE 16x560mm 2400lm ... HV ADV5 ..	rated	300	44,1	13,2	85	48	400
		max	540	45,7	24,7			
38	LLE 55x280mm 2000lm ... LV ADV5 ..	rated	375	30,7	11,5	95	33	450
		max	540	31,4	17,0			
39	LLE 55x566mm 4000lm ... LV ADV5 ..	rated	750	30,7	23,0	95	66	450
		max	1080	31,4	34,0			
40	LLE 24x280mm 1250lm ... HO HV ADV1 ..	rated	300	21,93	6,58	85	24	440
		max	750	23,79	17,84			
41	LLE 24x560mm 2400lm ... HO HV ADV1 ..	rated	300	43,85	13,16	85	48	440
		max	750	47,58	35,68			

³ Typical values at tp=50°C

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TRADEMARK / TYPECODE									
TRIDONIC			Supply current	Forward voltage ⁴ (U _F)	Rated power ⁴	Rated max. Operating Temperature t _c	No. of LEDs	Maximum working voltage for insulation	
		Type Reference	[mA]	[V]	[W]	[°C]		[V]	
*	42	LLE 24x140mm 400lm ... LVD ADV1	rated	100	21,3	2,1	80	16	60
			max	350	22,7	8,0			
*	43	LLE 24x280mm 750lm ... LVD ADV1	rated	100	37,3	3,7	80	28	60
			max	350	39,8	13,9			
*	44	LLE 24x560mm 1500lm ... LVD ADV1	rated	200	37,3	7,1	80	56	60
			max	700	39,8	27,9			
*	45	LLE 24x1120mm 3500lm ... LVD ADV1	rated	500	37,6	18,8	80	112	60
			max	1400	39,8	55,7			
*	46	LLE 24x140mm 400lm LVD ADV1	rated	100	21,9	2,2	80	2x8	60
			max	175	22,7	4,0			
*	47	LLE 24x280mm 750lm LVD ADV1	rated	100	38,4	3,8	80	2x14	60
			max	175	39,8	7,0			
*	48	LLE 24x560mm 1500lm LVD ADV1	rated	200	38,4	7,7	80	2x28	60
			max	350	39,8	13,9			
*	49	LLE 24x1120mm 3500lm LVD ADV1	rated	500	38,9	19,4	80	2x56	60
			max	700	39,8	27,8			

⁴ Typical values at t_p=65°C

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TRADEMARK / TYPECODE								
TRIDONIC			Supply current	Forward voltage ⁵ (U _F)	Rated power ⁵	Rated max. Operating Temperature t _c	No. of LEDs	Maximum working voltage for insulation
	Type Reference		[mA]	[V]	[W]	[°C]		[V]
1	LLE 24x280mm 1250lm ... LE HV ADV5 ..	rated	300	22,9	6,9	85	24	440
		max	540	24,0	13,0			
2	LLE 24x560mm 2400lm ... LE HV ADV5 ..	rated	300	45,8	13,7	85	48	440
		max	540	48,0	25,9			
3	LLE 24x280mm 1250lm 9.. LE HV ADV5 ..	rated	300	22,5	6,8	85	24	440
		max	540	23,5	12,7			
4	LLE 24x560mm 1250lm 9.. LE HV ADV5 ..	rated	300	45,0	13,5	85	48	440
		max	540	47,1	25,4			
5	LLE 24x280mm 1250lm 8.. LE HV ADV5 ..	rated	300	22,5	6,8	85	24	440
		max	540	23,5	12,7			
6	LLE 24x560mm 2400lm 8.. LE HV ADV5 ..	rated	300	45,0	13,5	85	48	440
		max	540	47,1	25,4			

⁵ Typical values at t_p=25°C

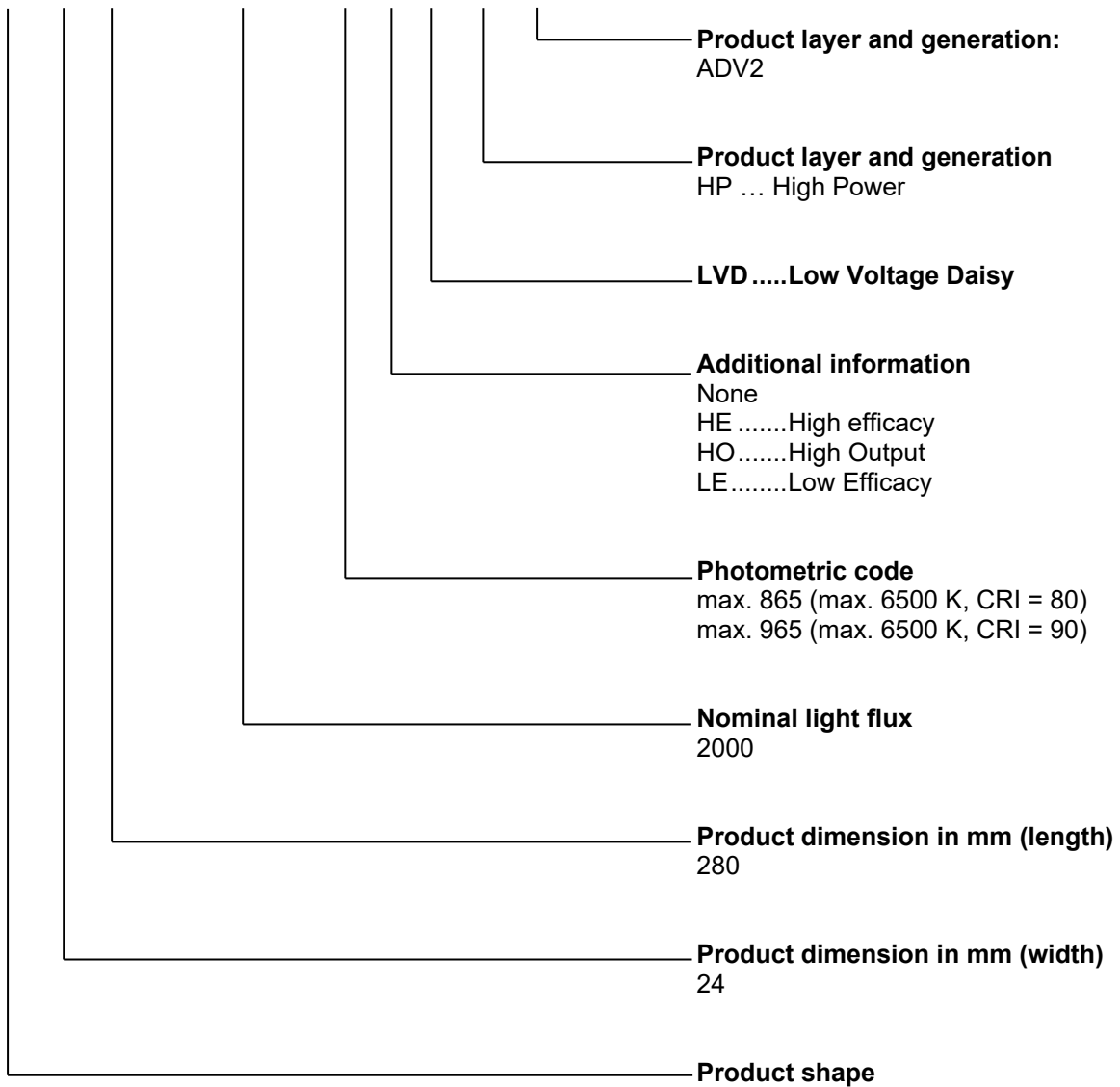
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Typecode:

LLE ..x....mmlm



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TRADEMARK / TYPECODE			Supply current	Forward voltage ⁶ (U _F)	Rated power ⁵	Rated max. Operating Temperature tc with lenses	No. of LEDs	Threshold illuminance value E _{thr} for RG2	Classification according EN 62471	Maximum working voltage for insulation ⁷	
Type Reference			[mA]	[V]	[W]	[°C]		[lx]		[V]	
*	1	LLE 24x280mm 2000lm ... LVD HP ADV2	rated	300	38,1	11,4	80	14	922	RG1≤295 mA RG2	300 V
			max	1200	42	50,4					400 V

⁶ Typical values at tp=65°C

⁷ 300V if mounted with M3 screw and plastic washer 0.5mm thickness,
400V if mounted with M3 screws in combination with Ledil Daisy lens

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