

**AUSTRIAN ELECTROTECHNICAL ASSOCIATION**

1010 Wien, Eschenbachgasse 9  
ZVR: 327279890 DVR: 1055887



**Testing & Certification**

Kahlenberger Str. 2A  
1190 Wien, Austria  
Phone: +43 1 370 58 06  
Fax: +43 1 370 58 06-199

# LICENCE

to use the European Mark



Licence No. **7590-062**

Date of issue: Wien, 2008 08 25  
Rev. No. 05 Wien, 2010 07 01

The Austrian Electrotechnical Association (ÖVE) 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 the company mentioned below to label the products listed in the Annex with the ENEC-Mark.

Licenceholder: **TridonicAtco GmbH & Co KG**  
Färbergasse 15  
6851 Dornbirn  
Austria

Product: **Electronic ballasts for emergency lighting,  
Series PC ... Combo**

Basis for this given right is the conformity of the products with the requirements of the relevant European Standards as shown in the test report(s) Ref.-No(s). **TGM-VA EE 32200 SFT-1/SFT-2/SFT-3, TGM-VA EE 32200a-h SFT-1/SFT-2/SFT-3** 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.

The product satisfies the provisions of the Low Voltage Directive 2006/95/EC.

**Österreichischer Verband für Elektrotechnik**  
Head of Testing & Certification

Digitally signed by W. Martin  
Email=w.martin@ove.at

Dipl.-Ing. W. Martin



**OVE – Testing & Certification**

Accredited by the Austrian Ministry of Economy, Family and Youth as Certification Body for products and processes in the field of electrical and electronic engineering, including safety and EMC



<p><i>Hersteller</i> <i>Manufacturer</i></p>	<p>TridonicAtco UK Ltd. Green Lane Industrial Estate, Spennymoor DL16 6JE Durham United Kingdom</p>
<p><i>Fertigungsstätte(n)</i> <i>Factory location(s)</i></p>	<p>TridonicAtco UK Ltd. Green Lane Industrial Estate, Spennymoor DL16 6JE Durham United Kingdom</p>
<p><i>Erzeugnis</i> <i>Product</i></p>	<p>Electronic ballasts for emergency lighting</p>
<p><i>Typenbezeichnung</i> <i>Type reference</i></p>	<p>Series PC ... Combo, see pages 4/8-8/8 of Annex</p>
<p>* <i>Warenzeichen</i> <i>Trade Mark</i></p>	<p><b>TRIDONIC</b>, TRIDONIC.ATCO</p>
<p>* <i>Prüfbericht</i> <i>Test Report</i></p>	<p>TGM-VA EE 32200 SFT-1/SFT-2/SFT-3 TGM-VA EE 32200a SFT-1/SFT-2/SFT-3 TGM-VA EE 32200b SFT-1/SFT-2/SFT-3 TGM-VA EE 32200c SFT-1/SFT-2/SFT-3 TGM-VA EE 32200d SFT-1/SFT-2/SFT-3 TGM-VA EE 32200e SFT-1/SFT-2/SFT-3 TGM-VA EE 32200f SFT-1/SFT-2/SFT-3 TGM-VA EE 32200g SFT-1/SFT-2/SFT-3 TGM-VA EE 32200h SFT-1/SFT-2/SFT-3</p>
<p><i>Nationale Bestimmung(en)</i> <i>National Standard(s)</i></p>	<p>ÖVE/ÖNORM EN 61347-1:2002-02-01 ÖVE/ÖNORM EN 61347-2-3+A1+A2:2006-10-01 ÖVE/ÖNORM EN 61347-2-7:2007-08-01 ÖVE/ÖNORM EN 60929:2007-01-01</p>
<p><i>Europannorm(en)</i> <i>European Standard(s)</i></p>	<p>EN 61347-1:2001 EN 61347-2-3:2001 EN 61347-2-3:2001/A1:2004 EN 61347-2-3:2001/A2:2006 EN 61347-2-7:2006 EN 60929:2006</p>
<p>* <i>Ersatz für Zertifikat</i> <i>Superseded licence</i></p>	<p>7590-062 Rev. 04 dated 2009 12 18 Items modified are marked with an asterisk (*)</p>
<p><i>Anmerkung(en)</i> <i>Remark(s)</i></p>	<p>WMT-procedure</p>

*Nennspannung*  
*Rated voltage*

**AC 220-240 V 50/60 Hz or AC 230 V 50/60 Hz  
DC supply for emergency lighting operation,  
see pages 4/8-8/8 of Annex**

*Nennstrom*  
*Rated current*

**see pages 4/8-8/8 of Annex**

*Lampenleistung*  
*Power of lamp*

**see pages 4/8-8/8 of Annex**

*Lampentyp(en)*  
*Lamp identification*

**Tubular fluorescent lamps,  
FD16 (T5), FD26 (T8), FSD (TCL),  
FSQ (TCD, TC-DEL), FSM (TCT, TC-TEL), FSS (TC-DD),  
see pages 4/8-8/8 of Annex**

*Umgebungstemperatur*  
*Ambient temperature*

**see pages 4/8-8/8 of Annex**

*Beschreibung des Aufbaus*  
*Description of construction*

**Built-in control gear, not dimmable.**

**Combination of AC supplied electronic ballast for  
fluorescent lamps and  
DC supplied electronic ballast for emergency lighting.**

**Proof against supply voltage polarity reversal.  
Basic insulated between supply and battery circuit.**

<i>Bauteil</i> <i>Component</i>	<i>Code</i> <i>Code</i>	<i>Hersteller</i> <i>Manufacturer</i>	<i>Typenbezeichnung</i> <i>Type Reference</i>	<i>Konformitätszeichen</i> <i>Mark(s) of conformity</i>
<i>Terminal Block</i>	<b>A</b>	<b>WAGO</b>	<b>251-1</b> <b>500 V; 2 A; 0,5-1,5mm<sup>2</sup></b>	<b>ENEC 15</b>
	<b>A</b>	<b>Tridonic.Atco</b> <b>Connection Techn.</b>	<b>ECONCUT</b> <b>500 V, 6 A, 0,5-1,0mm<sup>2</sup></b>	<b>ENEC 11</b>
	<b>A</b>	<b>WAGO</b>	<b>251-3</b> <b>500 V, 4 A, 0,5-1,0mm<sup>2</sup></b>	<b>ENEC 15</b>
<i>Terminal Block</i>	<b>A</b>	<b>WAGO</b>	<b>250-1</b> <b>250 V, 2A</b>	<b>DEMKO</b>
	<b>A</b>	<b>WAGO</b>	<b>250-2</b> <b>400V, 2A</b>	<b>DEMKO</b>
<i>Optocoupler</i> <i>OC1, OC3, OC4</i>	<b>B</b>	<b>Sharp</b>	<b>PC357 Series</b> <b>3750 V</b>	<b>UL</b>
<i>Capacitor C7</i>	<b>A</b>	<b>Epcos</b>	<b>MKP</b> <b>Y2, 250 V, 1 nF</b>	<b>VDE</b>
* <i>Capacitor C155</i>	<b>A</b>	<b>Epcos</b>	<b>X2, 305 V, 0,22 µF</b>	<b>ENEC 10</b>
* <i>Capacitor C1</i>	<b>A</b>	<b>Epcos</b>	<b>X2, 250 V, 0,33 µF</b>	<b>ENEC 10</b>
* <i>Capacitor C2</i>	<b>A</b>	<b>Epcos</b>	<b>Y2, 305 V, 0,22 µF</b>	<b>ENEC 10</b>
<b>A</b>	The component is replaceable with another one, also certified, with equivalent characteristics.			
<b>B</b>	The component is replaceable if authorised by the test house.			
<b>C</b>	Integrated component tested together with the appliance.			
<b>D</b>	Alternative component.			

TRADEMARK / TYPECODE			Rated supply current	Suitable for lamps (normal mode)	Emergency operation							Ambient temperature (ta) [°C]	Rated operating temperature (tc) [°C]	Case	Test Report
					No. of lamps operated in emergency mode	Rated DC supply [V]	No. of cells	Type of battery	Rated duration [h]	Metal (M) Plastic (P)	VA EE 32200				
		TRIDONIC.ATCO	[A]			[V]			[h]	[°C]	[°C]				
1	PC 1x36-3 TCL Combo		0,17	1x 36W TCL	1	3,6	3	Ni-Cd / Ni-MH 4 Ah	3	0-50	70	M	-		
2	PC 2x36-3 TCL Combo		0,33	2x 36W TCL	1	3,6	3	Ni-Cd / Ni-MH 4 Ah	3	0-50	70	M	-		
3	PC 1x40-4 TCL Combo		0,20	1x 40W TCL	1	4,8	4	Ni-Cd / Ni-MH 4 Ah	3	0-50	70	M	-		
4	PC 2x40-4 TCL Combo		0,40	2x 40W TCL	1	4,8	4	Ni-Cd / Ni-MH 4 Ah	3	0-50	70	M	-		
5	PC 1x55-5 TCL Combo		0,29	1x 55W TCL	1	6,0	5	Ni-Cd / Ni-MH 4 Ah	3	0-50	70	M	-		
6	PC 2x55-5 TCL Combo		0,56	2x 55W TCL	1	6,0	5	Ni-Cd / Ni-MH 4 Ah	3	0-50	70	M	-		
7	PC 1x26-3 TC Combo		0,13 0,13	1x 26W TCD 1x 26W TCT	1	3,6	3 3 3	Ni-Cd / Ni-MH 4 Ah Ni-Cd 1,5 Ah Ni-MH 2 Ah	3 1 1	0-55	75	P	c		
8	PC 1x26/32/42-6 TC Combo		0,14 0,14 0,18 0,23	1x 26W TCD 1x 26W TCT 1x 32W TCT 1x 42W TCT	1	7,2	6 6 6	Ni-Cd / Ni-MH 4 Ah Ni-Cd 1,5 Ah Ni-MH 2 Ah	3 1 1	0-55	75	P	c		
9	PC 2x26/32/42-6 TC Combo		0,26 0,26 0,33 0,44	1x 26W TCD 1x 26W TCT 1x 32W TCT 1x 42W TCT	1	7,2	6 6 6	Ni-Cd / Ni-MH 4 Ah Ni-Cd 1,5 Ah Ni-MH 2 Ah	3 1 1	0-55	75	P	d		

TRADEMARK / TYPECODE			Rated supply current	Suitable for lamps (normal mode)	Emergency operation							Ambient temperature (ta) [°C]	Rated operating temperature (tc) [°C]	Case	Test Report
		TRIDONIC.ATCO			No. of lamps operated in emergency mode	Rated DC supply [V]	No. of cells	Type of battery	Rated duration [h]	Metal (M) Plastic (P)	VA EE 32200				
10	PC 1x18-3 TC Combo	0,10 0,10	2x 18W TCD 2x 18W TCT	1	3,6	3 3 3	Ni-Cd / Ni-MH 4 Ah Ni-Cd 1,5 Ah Ni-MH 2 Ah	3 1 1	0-55	75	P	d			
11	PC 2x18-3 TC Combo	0,18 0,18	2x 18W TCD 2x 18W TCT	1	3,6	3 3 3	Ni-Cd / Ni-MH 4 Ah Ni-Cd 1,5 Ah Ni-MH 2 Ah	3 1 1	0-55	75	P	c			
12	PC 2x26-3 TC Combo	0,23 0,23	2x 26W TCD 2x 26W TCT	1	3,6	3 3 3	Ni-Cd / Ni-MH 4 Ah Ni-Cd 1,5 Ah Ni-MH 2 Ah	3 1 1	0-55	75	P	c			
13	PC 1x14-3 T5 Combo lp	0,090	1x 14W T5	1	3,6	3	Ni-Cd 4 Ah Ni-Cd 1,5 Ah Ni-MH 2 Ah	3 1 1	0-55	70	M	a			
14	PC 2x14-3 T5 Combo lp	0,160	2x 14W T5	1	3,6	3	Ni-Cd 4 Ah Ni-Cd 1,5 Ah Ni-MH 2 Ah	3 1 1	0-55	70	M	a			
15	PC 1x21/28-5 T5 Combo lp	0,130 0,160	1x 21W T5 1x 28W T5	1	6,0	5	Ni-Cd 4 Ah Ni-Cd 1,5 Ah Ni-MH 2 Ah	3 1 1	0-55	70	M	a			

TRADEMARK / TYPECODE			Rated supply current	Suitable for lamps (normal mode)	Emergency operation					Ambient temperature (ta) [°C]	Rated operating temperature (tc) [°C]	Case	Test Report
		TRIDONIC.ATCO			No. of lamps operated in emergency mode	Rated DC supply [V]	No. of cells	Type of battery	Rated duration [h]			Metal (M) Plastic (P)	VA EE 32200
			[A]						[h]	[°C]			
16	PC 2x21/28-5 T5 Combo Ip		0,225 0,295	2x 21W T5 2x 28W T5	1	6,0	5	Ni-Cd 4 Ah Ni-Cd 1,5 Ah Ni-MH 2 Ah	3 1 1	0-55	70	M	a
17	PC 1x24-4 T5 Combo Ip		0,135	1x 24W T5	1	4,8	4	Ni-Cd 4 Ah Ni-Cd 1,5 Ah Ni-MH 2 Ah	3 1 1	0-55	70	M	b
18	PC 2x24-4 T5 Combo Ip		0,245	2x 24W T5	1	4,8	4	Ni-Cd 4 Ah Ni-Cd 1,5 Ah Ni-MH 2 Ah	3 1 1	0-55	70	M	b
19	PC 1x35-6 T5 Combo Ip		0,200	1x 35W T5	1	7,2	6	Ni-Cd 4 Ah Ni-Cd 1,5 Ah Ni-MH 2 Ah	3 1 1	0-55	70	M	a
20	PC 2x35-6 T5 Combo Ip		0,370	2x 35W T5	1	7,2	6	Ni-Cd 4 Ah Ni-Cd 1,5 Ah Ni-MH 2 Ah	3 1 1	0-55	70	M	a
21	PC 1x39-5 T5 Combo Ip		0,21	1x 39W T5	1	6,0	5	Ni-Cd 4 Ah Ni-Cd 1,5 Ah Ni-MH 2 Ah	3 1 1	0-55	70	M	d



TRADEMARK / TYPECODE			Rated supply current	Suitable for lamps (normal mode)	Emergency operation					Ambient temperature (ta)	Rated operating temperature (tc)	Case	Test Report
		TRIDONIC.ATCO			No. of lamps operated in emergency mode	Rated DC supply	No. of cells	Type of battery	Rated duration			Metal (M) Plastic (P)	VA EE 32200
			[A]		[V]			[h]	[°C]	[°C]			
22	PC 2x39-5 T5 Combo Ip		0,39	2x 39W T5	1	6,0	5	Ni-Cd 4 Ah Ni-Cd 1,5 Ah Ni-MH 2 Ah	3 1 1	0-55	70	M	d
23	PC 1x49-5 T5 Combo Ip		0,260	1x 49W T5	1	6,0	5	Ni-Cd 4 Ah Ni-Cd 1,5 Ah Ni-MH 2 Ah	3 1 1	0-55	70	M	b
24	PC 2x49-5 T5 Combo Ip		0,500	2x 49W T5	1	6,0	5	Ni-Cd 4 Ah Ni-Cd 1,5 Ah Ni-MH 2 Ah	3 1 1	0-55	70	M	a
25	PC 1x54-6 T5 Combo Ip		0,300	1x 54W T5	1	7,2	6	Ni-Cd 4 Ah Ni-Cd 1,5 Ah Ni-MH 2 Ah	3 1 1	0-55	70	M	b
26	PC 2x54-6 T5 Combo Ip		0,530	2x 54W T5	1	7,2	6	Ni-Cd 4 Ah Ni-Cd 1,5 Ah Ni-MH 2 Ah	3 1 1	0-55	75	M	b
27	PC 1x80-6 T5 Combo Ip		0,385	1x 80W T5	1	7,2	6	Ni-Cd 4 Ah Ni-Cd 1,5 Ah Ni-MH 2 Ah	3 1 1	0-55	70	M	b
28	PC 1x36 / 33 Combo		0,180	1x 36W T8	1	3,6	3	Ni-Cd 4 Ah	3	0-50	70	M	e

TRADEMARK / TYPECODE			Rated supply current	Suitable for lamps (normal mode)	Emergency operation						Ambient temperature (ta) [°C]	Rated operating temperature (tc) [°C]	Case	Test Report
		TRIDONIC.ATCO			No. of lamps operated in emergency mode	Rated DC supply [V]	No. of cells	Type of battery	Rated duration [h]	Metal (M) Plastic (P)			VA EE 32200	
			[A]						[h]	[°C]	[°C]			
	29	PC 2x36 / 33 Combo	0,350	2x 36W T8	1	3,6	3	Ni-Cd 4 Ah	3	0-50	70	M	e	
	30	PC 1x58 / 34 Combo	0,270	1x 58W T8	1	4,8	4	Ni-Cd 4 Ah	3	0-50	70	M	e	
	31	PC 2x58 / 34 Combo	0,510	2x 58W T8	1	4,8	4	Ni-Cd 4 Ah	3	0-50	70	M	e	
	32	PC 1x28-33 LO E DD Combo	0,160	1x 28W TC-DD	1	3,6	3	Ni-Cd 4 Ah	3	0-55	75	P	f	
	33	PC 1x28-34 LO E DD Combo	0,170	1x 28W TC-DD	1	4,8	4	Ni-Cd 4 Ah	3	0-55	75	P	f	
	34	PC 1x16-33 HO DD Combo	0,085	1x 16W TC-DD	1	3,6	3	Ni-Cd / Ni-MH 4 Ah	3	0-55	75	P	g	
	35	PC 2x26/32-5 TC Combo	0,260 0,260 0,315	2x 26W TC-DEL 2x 26W TC-TEL 2x 32W TC-TEL	1	6,0	5	Ni-Cd / Ni-MH 4 Ah Ni-Cd 1,5 Ah Ni-MH 2 Ah	3 1 1	0-55	75	P	g	
*	36	PC 3/4x14 / 33 T5 Combo	0,230 0,300	3x 14W T5 4x 14W T5	1	3,6	3	Ni-Cd 4 Ah	3	0-50	70	M	h	
*	37	PC 3/4x14 / 13 T5 Combo	0,230 0,300	3x 14W T5 4x 14W T5	1	3,6	3	Ni-Cd 4 Ah	1	0-50	70	M	h	
*	38	PC 3/4x18 / 33 Combo	0,270 0,350	3x 18W T8 4x 18W T8	1	3,6	3	Ni-Cd 4 Ah	3	0-50	70	M	h	
*	39	PC 3/4x24 / 34 T5 Combo	0,340 0,450	3x 24W T5 4x 24W T5	1	4,8	4	Ni-Cd 4 Ah	3	0-50	70	M	h	