

## ENEC Certificate

This is to certify that:

Tridonic UK Limited  
House of Light  
Butchers Race  
Green Lane Industrial Estate  
Spennymoor  
DL16 6JE  
United Kingdom

Holds Certificate Number:

ENEC 36210

In respect of:

**Lamp Controlgear**  
**AC / DC supplied electronic controlgear for emergency and LED lighting**

(hereinafter called the certificate holder), having been assessed against the requirements of the CENELEC Agreement on the use of a commonly agreed Mark of Conformity for products complying with European standards (in short the ENEC Agreement), the right and Licence to use the commonly agreed Mark of Conformity for products shown below in respect of the goods particularly described in the Appendix bearing the same number as the certificate.

Goods shall be produced by the certificate holder only at the address given above in accordance with the relevant European Standard as detailed above. The Certificate is granted subject to the Specific Rules for the ENEC Agreement and the BSI Administration scheme.

For and on behalf of BSI:

  
Chris Lewis - Certification Director, Product Certification

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05



Page: 1 of 39

...making excellence a habit.™

# ENEC Certificate

No. ENEC 36210

## Certificate Index

Section	Product Range	Specification	Page
1	Combined Emergency Modules and Electronic Ballasts for Fluorescent lamps	EN 61347-2-3:2001+A1+A2 EN 61347-2-3:2011 EN 61347-2-7:2006, EN 61347-2-7:2012 EN 60929:2006, EN 60929:2011 EN 60925:1991+A1+A2 EN 61347-1:2008+A1+A2	3
2	Emergency modules for Fluorescent lamps	EN 61347-2-3:2001+A1+A2 EN 61347-2-3:2011 EN 61347-2-7:2006, EN 61347-2-7:2012 EN 60929:2006, EN 60929:2011 EN 60925:1991+A1+A2 EN 61347-1:2008+A1+A2	8
3	Combined Emergency Modules and Electronic Ballasts for LED's	EN 61347-2-7:2006, EN 61347-2-7:2012 EN 61347-2-13:2006, EN 61347-2-13:2014+A1 EN 61347-1:2008+A1, EN 61347-1:2008+A1+A2 EN 61347-1:2015 EN 62384:2006, EN 62384:2006+A1	13
4	Emergency LED Driver Modules	EN 61347-2-7:2006, EN 61347-2-7:2012 EN 61347-2-13:2006, EN 61347-2-13:2014 EN 61347-1:2008+A1+A2, EN 61347-1:2015 EN 62384:2006+A1	23
5	LED driver modules	EN 61347-2-13:2006 EN 61347-2-13:2014 EN 61347-1:2008+A1+A2 EN 61347-1:2015 EN 62384:2006+A1	34

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 2 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.

To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

# ENEC Certificate

No. ENEC 36210

## Section 1

### Combined Emergency Modules and Electronic Ballasts for Fluorescent Lamps

BSI report 247/8192039 1 of 2 & 2 of 2 Rating 220-240 V 50/60Hz Classification for building in

Article Number	Tridonic Model No.	Lamps	Duration	Cells
89899875	PC 1x14-3 T5 Combo Ip	T5 1x14W	3hrs 1hr	3 cell NiCd or 3 cell NiMh
89899876	PC 2x14-3 T5 Combo Ip	T5 2x 14W	3hrs 1hr	3 cell NiCd or 3 cell NiMh
89899881	PC 1x21/28-5 T5 Combo Ip	T5 1x21/28W	3hrs 1hr	5 cell NiCd or 5 cell NiMh
89899882	PC 2x21/28-5 T5 Combo Ip	T5 2x21/28W	3hrs 1hr	5 cell NiCd or 5 cell NiMh
89899885	PC 1x35-6 T5 Combo Ip	T5 1x35W	3hrs 1hr	6 cell NiCd or 6 cell NiMh
89899886	PC 2x35-6 T5 Combo Ip	T5 3x35W	3hrs 1hr	6 cell NiCd or 6 cell NiMh
89899888	PC 2x49-5 T5 Combo Ip	T5 2x49W	3hrs 1hr	5 cell NiCd or 5 cell NiMh

BSI report 2413/8225807 Rating 220-240 V 50/60Hz Classification for building in

Article Number	Tridonic Model No.	Lamps	Duration	Cells
89899887	PC 1x49-5 T5 Combo Ip	T5 1x49W	1hr 3hrs	5 cell NiCd or 5 cell NiMh
89899889	PC 1x54-6 T5 Combo Ip	T5 1x54W	1hr 3hrs	6 cell NiCd or 6 cell NiMh
89899891	PC 1x80-6 T5 Combo Ip	T5 1x80W	1hr 3hrs	6 cell NiCd or 6 cell NiMh
89899880	PC 2x24-4 T5 Combo Ip	T5 2x24W	1hr 3hrs	4 cell NiCd or 4 cell NiMh
89899890	PC 2x54-6 T5 Combo Ip	T5 2x54W	1hr 3hrs	6 cell NiCd or 6 cell NiMh

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 3 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.

To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
A member of BSI Group of Companies.

# ENEC Certificate

No. ENEC 36210

## Section 1 (continued)

BSI report 2413/8336153/1 of 2 & 2 of 2  
Rating 230V (220-240) 50/60Hz Classification for building in

Article Number	Tridonic Model No.	Lamps	Duration	Cells
89805250	PC 1x36 / 33 COMBO	T8 1x36W	3hrs	3 Cell 4Ah NiCd
89805268	PC 2x36 / 33 COMBO	T8 2x36W	3hrs	3 Cell 4Ah NiCd
89805270	PC 1x58 / 34 COMBO	T8 1x58W	3hrs	4 Cell 4Ah NiCd
89805272	PC 2x58 / 34 COMBO	T8 2x58W	3hrs	4 Cell 4Ah NiCd
89800002	PC 3/4x14 / 33 T5 COMBO	3/4x14W T5	3hrs	3 Cell 4Ah NiCd
89800003	PC 3/4x14 / 13 T5 COMBO	3/4x14W T5	3hrs	3 Cell 4Ah NiCd
89818236	PC 3/4x18 / 33 COMBO	3/4x18W T5	3hrs	3 Cell 4Ah NiCd
89899878	PC 3/4x24 / 34 T5 COMBO	3/4x24W T5	3hrs	4 Cell 4Ah NiCd

First Issued: 1997-03-14  
Latest Issue: 2019-06-05

Effective Date: 2019-06-05  
Expiry Date: 2021-02-05

Page: 4 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.  
To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
A member of BSI Group of Companies.

# ENEC Certificate

No. ENEC 36210

## Section 1 (continued)

BSI test report 2413/8192045,  
Rating 230V (220-240) 50/60Hz tc +75°C Classification for building in

Article No.	Tridonic Model No.	Lamps	Duration	Cells
89899943	PC 1x28-33 LO DD COMBO	1 x 28W 2D	3hrs	3 cells 4Ah NiCd / NiMH
89899957	PC 1x28-33 HO DD COMBO	1 x 28W 2D	3hrs	3 cells 4Ah NiCd / NiMH
89899955	PC 1x28-34 LO DD COMBO	1 x 28W 2D	3hrs	4 cells 4Ah NiCd / NiMH
89899958	PC 1x28-34 HO DD COMBO	1 x 28W 2D	3hrs	4 cells 4Ah NiCd / NiMH
89899981	PC 1x38-34 LO DD COMBO	1 x 38W 2D	3hrs	4 cells 4Ah NiCd / NiMH
89899933	PC 1x38-34 HO DD COMBO	1 x 38W 2D	3hrs	4 cells 4Ah NiCd / NiMH
89899975	PC 1x38-35 HO DD COMBO	1 x 38W 2D	3hrs	5 cells 4Ah NiCd / NiMH
89899930	PC 2x26-4 TC COMBO	2 x 26W TCD 2 x 26W TCT	3hrs	4 cells 4Ah NiCd / NiMH

BSI test report 2413/8424304  
Rating 230V (220-240) 50/60Hz tc +75°C Classification for building in

Article No.	Tridonic Model No.	Lamps	Duration	Cells
89899927	PC 1x18-4 TC COMBO	1 x 18W TCD 1 x 18W TCT	3hrs	4 cells 4Ah NiCd / NiMH
89899976	PC 1x26-4 TC COMBO	1 x 26W TCD 1 x 26W TCT	3hrs	4 cells 4Ah NiCd / NiMH
89899929	PC 1x26/32-5 TC COMBO	1 x 26W TCD/TCT 1 x 32W TCT	3hrs	5 cells 4Ah NiCd / NiMH
89899928	PC 2x18-4 TC COMBO	2 x 18W TCD 2 x 18W TCT	3hrs	4 cells 4Ah NiCd / NiMH

First Issued: 1997-03-14  
Latest Issue: 2019-06-05

Effective Date: 2019-06-05  
Expiry Date: 2021-02-05

Page: 5 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.  
To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
A member of BSI Group of Companies.

# ENEC Certificate

No. ENEC 36210

## Section 1 (continued)

BSI test report 2413/8428119

Rating 230V (220-240) 50/60Hz tc +70°C Classification for building in

Article No.	Tridonic Model No.	Lamps	Duration	Cells
89899924	PC 1x55-5 TCL COMBO	TC-L 1x55W	3hrs	5 cells 4Ah NiCd / NiMH
89899921	PC 2x36-3 TCL COMBO	TC-L 2x36W	3hrs	3 cells 4Ah NiCd / NiMH
89899923	PC 2x40-4 TCL COMBO	TC-L 2x40W	3hrs	4 cells 4Ah NiCd / NiMH
89899925	PC 2x55-5 TCL COMBO	TC-L 2x55W	3hrs	5 cells 4Ah NiCd / NiMH

BSI test report 2413/8437230

Rating 230V (220-240) 50/60Hz tc +75°C Classification for building in

Article No.	Tridonic Model No.	Lamp	Duration	Battery
89899983	PC 1x26-3 TC COMBO	1x26W TCD 1x26W TCT	1hr / 3hrs	3 cell 4Ah NiCd/ NiMH 3 cell 1.5Ah NiCd 3 cell 2Ah NiMH
89899982	PC 2x18-3 TC COMBO	2x18W TCD 2x18W TCT	1hr / 3hrs	3 cell 4Ah NiCd/ NiMH 3 cell 1.5Ah NiCd 3 cell 2Ah NiMH
89899931	PC 1x26/32/42-6 TC COMBO	1x26W TCD/TCT 1X32W/42W TCT	1hr / 3hrs	6 cell 4Ah NiCd/ NiMH 6 cell 1.5Ah NiCd 6 cell 2Ah NiMH
89899984	PC 2x26-3 TC COMBO	2x26W TCD 2x26W TCT	1hr / 3hrs	3 cell 4Ah NiCd/ NiMH 3 cell 1.5Ah NiCd 3 cell 2Ah NiMH

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 6 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.

To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
A member of BSI Group of Companies.



# ENEC Certificate

No. ENEC 36210

## Section 1 (continued)

BSI test report 2413/8455346

Rating 230V (220-240) 50/60Hz tc +75°C Classification for building in

Article No.	Tridonic Model No.	Lamp	Duration	Battery
89899989	PC 2x26/32/42-6 TC COMBO	2x26/32/42W TCT	1hr 1hr 3hrs	6 cells 1.6Ah NiCd 6 cells 2Ah NiMH 6 cells 4Ah NiCd / NiMH
89899990	PC 1x18-3 TC COMBO	1x18W TCD 1x18W TCT	1hr 1hr 3hrs	3 cells 1.6Ah NiCd 3 cells 2Ah NiMH 3 cells 4Ah NiCd / NiMH
89899926	PC 1x16-33 HO DD COMBO	1x16W 2D	3hrs	3 cells 4Ah NiCd / NiMH
89899998	PC 2x26/32-5 TC COMBO	2x26W TCD 2x26/32W TCT	1hr 1hr 3hrs	5 cells 1.6Ah NiCd 5 cells 2Ah NiMH 5 cells 4Ah NiCd / NiMH

BSI test report 2413/7913295, (OVE report TGM-VA EE 32200c) and BSI test report 2413/8437230

Rating 230V (220-240) 50/60Hz tc +75°C Classification for building in

Article No.	Tridonic Model No.	Lamps	Duration	Cells
89899980	PC 1x28-33 LO E DD COMBO	1x28W 2D	3hrs	3 cell 4Ah NiCd
89800028	PC 1x28-34 LO E DD COMBO	1x28W 2D	3hrs	4 cell 4Ah NiCd

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 7 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.

To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

# ENEC Certificate

No. ENEC 36210

## Section 2 Emergency modules for Fluorescent lamps

EM Mini Basic Emergency Modules

BSI test report 2413/8318052

Rated 230V (220 – 240) 50/60Hz, Tc +60°C Classification for building in

Article No.	Tridonic Model No.	Duration	Cells
89899950	EM34A	3hrs	4
Lamps 18, 26W TC-D, 28W T5c, 36W TC-F			

BSI test report 247/4837226

Rated 220-240V, 50/60Hz, Tc +60°C Classification for building in

Article No.	Tridonic Model No.	Duration	Cells
89899822	EM 14/24-4 T5	3hrs	4
89899823	EM 21/28/49-5 T5	3hrs	5
89899825	EM 35-6 T5	3hrs	6
89899826	EM 54/80-6 T5	3hrs	6
For use with T5 lamps 14W, 21W, 28W, 34W, 35W, 39W, 49W, 54W, 80W			

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 8 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.

To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
A member of BSI Group of Companies.



# ENEC Certificate

No. ENEC 36210

## Section 2 (continued)

EM Range of Emergency modules

BSI test report 2413/8024738 1 of 2 & 2413/8024738 2 of 2

Rating 230V (220-240) 50/60Hz Tc 70°C Classification for building in

Article No.	Model number	Lamps	Duration	Cells
89800202	EM 04 Basic LP G2	*	1hr 3hrs	4 cells C's NiCd / NiMH 4 cells D NiCd
89800205	EM 05 Basic LP G2	*	1hr 3hrs	5 cells C's NiCd / NiMH 5 cells D NiCd
89800208	EM 06 Basic LP G2	*	1hr 3hrs	6 cells C's NiCd / NiMH 6 cells D NiCd
89800201	EM 04 ST G2	*	1hr 3hrs	4 cells C's NiCd / NiMH 4 cells D NiCd
89800204	EM 05 ST G2	*	1hr 3hrs	5 cells C's NiCd / NiMH 5 cells D NiCd
89800207	EM 06 ST G2	*	1hr 3hrs	6 cells C's NiCd / NiMH 6 cells D NiCd
89800197	EM 03 PRO G2	*	1hr 3hrs	3 cells C's NiCd / NiMH 3 cells D NiCd
89800200	EM 04 PRO G2	*	1hr 3hrs	4 cells C's NiCd / NiMH 4 cells D NiCd
89800203	EM 05 PRO G2	*	1hr 3hrs	5 cells C's NiCd / NiMH 5 cells D NiCd
89800206	EM 06 PRO G2	*	1hr 3hrs	6 cells C's NiCd / NiMH 6 cells D NiCd

\*See data sheet for lamps per module type (Types listed T5, T8, TC-DEL / SEL / TEL. TC-F / -L. TC-DD, T5c

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 9 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.

To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
A member of BSI Group of Companies.

# ENEC Certificate

No. ENEC 36210

## Section 2 (continued)

EM Range of Emergency modules

BSI test report 2413/8165795 1 of 2 & 2413/8165795 2 of 2

Rating 220-240 50/60Hz tc +70°C ta + 60°C Classification for building in

Article No.	Model number	Lamps	Duration	Cells
89800344	EM 03 Basic LP NiMH G2	*	1hr 3hrs	3 cells 2Ah NiMH 3 cells 4Ah NiMH
89800347	EM 06 Basic LP NiMH G2	*	1hr 3hrs	6 cells 2Ah NiMH 6 cells 4Ah NiMH
89800336	EM 03 ST NiMH G2	*	1hr 3hrs	3 cells 2Ah NiMH 3 cells 4Ah NiMH
89800337	EM 04 ST NiMH G2	*	1hr 3hrs	4 cells 2Ah NiMH 4 cells 4Ah NiMH
89800338	EM 05 ST NiMH G2	*	1hr 3hrs	5 cells 2Ah NiMH 5 cells 4Ah NiMH
89800339	EM 06 ST NiMH G2	*	1hr 3hrs	6 cells 2Ah NiMH 6 cells 4Ah NiMH
89800332	EM 03 PRO NiMH G2	*	1hr 3hrs	3 cells 2Ah NiMH 3 cells 4Ah NiMH
89800333	EM 04 PRO NiMH G2	*	1hr 3hrs	4 cells 2Ah NiMH 4 cells 4Ah NiMH
89800334	EM 05 PRO NiMH G2	*	1hr 3hrs	5 cells 2Ah NiMH 5 cells 4Ah NiMH
89800335	EM 06 PRO NiMH G2	*	1hr 3hrs	6 cells 2Ah NiMH 6 cells 4Ah NiMH

\*See data sheet for lamps per module type (Types listed T5, T8, TC-DEL / SEL / TEL. TC-F / -L. TC-DD, T5c

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 10 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.

To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
A member of BSI Group of Companies.

# ENEC Certificate

No. ENEC 36210

## Section 2 (continued)

BSI test report 2413/8153056 1 of 2 & 2413/8153056 2 of 2

Rating 220-240 50/60Hz tc +70°C ta + 60°C Classification for building in

Article No.	Model number	Lamps	Duration	Cells
89800235	EM 15 HO ST G2	*	1hr	5 cells D NiCd
89800238	EM 16 HO ST G2	*	1hr	6 cells D NiCd

\*See data sheet for lamps per module type (Types listed T5, T8, TC-DEL / SEL / TEL. TC-F / -L. TC-DD, T5c)



First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 11 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.

To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
A member of BSI Group of Companies.

# ENEC Certificate

No. ENEC 36210

## Section 2 (continued)

EMBasic Emergency modules

BSI test report 2413/8316765

Rated 230 V (230-240), 50/60Hz, Tc +75°C Classification for building in

Article No.	Tridonic Model No.	Duration	Cells
89800108	EM 36C BASIC	3hrs	6 cells 4Ah NiMH
89800109	EM 36C HO BASIC	3hrs	6 cells 4Ah NiMH
89818654	EM 36A BASIC	3hrs	6 cells 4Ah NiMH
89899621	EM 35D BASIC	3hrs	5 cells 4Ah NiMH
89800001	EM 35C BASIC	3hrs	5 cells 4Ah NiMH
89818667	EM 35B BASIC	3hrs	5 cells 4Ah NiMH
89800175	EM 34D BASIC	3hrs	4 cells 4Ah NiMH
89818581	EM 35A BASIC	3hrs	5 cells 4Ah NiMH
89818662	EM 34B BASIC	3hrs	4 cells 4Ah NiMH
89800107	EM 34C BASIC	3hrs	4 cells 4Ah NiMH
89818557	EM 34A BASIC	3hrs	4 cells 4Ah NiMH
89818655	EM 33B BASIC	3hrs	3 cells 4Ah NiMH
89818556	EM 33A BASIC	3hrs	3 cells 4Ah NiMH
89899611	EM 14B BASIC	3hrs	4 cells 4Ah NiMH
89800000	EM 33C BASIC	3hrs	3 cells 4Ah NiMH
89899864	EM 13E BASIC	3hrs	3 cells 4Ah NiMH
89895971	EM 13B BASIC	3hrs	3 cells 4Ah NiMH

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 12 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.

To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
A member of BSI Group of Companies.

# ENEC Certificate

No. ENEC 36210

## Section 3

### Combined Emergency Modules and Electronic Ballasts for LEDs

BSI Test Report 2413/8254529/ 1 of 4 to 4 of 4

Rated 220-240 V 50/60Hz, For Built in and Independent Installation

Article No.	Tridonic Model Number	Duration	Cells
89800412	EMpowerLED BASIC FX 104 SR 50W 50V	3hrs 1hr	4 cells 4Ah NiCd/NiMh 4 cells 1.6/2.0Ah NiCd/NiMh
89800430	EMpowerLED BASIC FX 103 SR 50W 50V	3hrs 1hr	3 cells 4Ah NiCd/NiMh 3 cells 1.6/2.0Ah NiCd/NiMh
89800411	EMpowerLED BASIC FX 104 C 50W 50V	3hrs 1hr	4 cells 4Ah NiCd/NiMh 4 cells 1.6/2.0Ah NiCd/NiMh
89800429	EMpowerLED BASIC FX 103 C 50W 50V	3hrs 1hr	3 cells 4Ah NiCd/NiMh 3 cells 1.6/2.0Ah NiCd/NiMh

BSI Test Report 8861802-2/1 of 2 & 2 of 2 Ta +55°C

Input voltage 220-240V ~ 50/60 Hz Classification for building in

Article No.	Tridonic Model No.	Duration	Cells
89800393	EM powerLED BASIC FX 104 LP 80W 200V	1 Hr 3 Hrs 1 Hr High output 3 Hr High output	4 Cell 1.6Ah Ni-Cd/2.0Ah NiMh 4 Cell 4Ah Ni-Cd/NiMh 5 Cell 1.6Ah Ni-Cd/2.0Ah NiMh 5 Cell 4Ah Ni-Cd/NiMh

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 13 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.

To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
A member of BSI Group of Companies.

# ENEC Certificate

No. ENEC 36210

## Section 3 (continued)

EM Power LED drivers,

BSI Test Report 8861802-3 / 1 of 2 and 8861802-3 / 2 of 2 Classification Integral,

Input 220-240V 50/60 Hz, CPS Input 220-240V 0/50/60 Hz tc + 70°C

NTx ta -10°C - +55°C, DALI ta -25°C - +55°C, NPS ta -30°C - +55°C, NSI ta -10°C - +55°C

Tridonic Article Number / Description	Zumtobel Article Number / Description
89800481 – EMpower1 LED NTx HO 500 140	59004046 - EM POWER1 CT LED NT1 1/500mA 140X30X21
	59007234 - EM POWER1 CT LED NT3 1/420mA 140X30X21
	59007267 - EM POWER1 CT LED E3TX 1/420mA 140X30X21
89800052 - EMpower1 LED NTx HO	59004056 - EM POWER1 CT LED NT1 2x6/330mA
	59004057 - EM POWER1 CT LED NT3 2x6/330mA
	59004060 - EM POWER1 CT LED NT1 2x6/210mA
	59004061 - EM POWER1 CT LED NT3 2x6/210mA
	59004062 - EM POWER1 CT LED NT1 1x6/270mA
	59004063 - EM POWER1 CT LED NT3 1x6/270mA
89800482 – EMpower1 LED NTx HO 500	59004079 - EM POWER1 CT LED NT1 1/500mA
	59007235 - EM POWER1 CT LED NT3 1/420mA
	59007268 - EM POWER1 CT LED E3TX 1/420mA
89800057 - EMpower2 LED NTx 2xHO	59004052 - EM POWER2 CT LED NT1 1/350mA 2x6/212mA
	59004053 - EM POWER2 CT LED NT3 1/350mA 2x6/212mA
	59004054 - EM POWER2 CT LED NT1 2x2x6/212mA
	59004055 - EM POWER2 CT LED NT3 2x2x6/212mA

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 14 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.

To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
A member of BSI Group of Companies.



# ENEC Certificate

No. ENEC 36210

## Section 3 (continued)

EM Power LED drivers (continued)

Tridonic Article Number / Description	Zumtobel Article Number / Description
89800151 - EMpower2 LED NTx 2xHO 140	59004529 - EM POWER2 CT LED NT1 2x2x6/212mA 140x30x21
	59004530 - EM POWER2 CT LED NT3 2x2x6/212mA 140x30x21
89800074 - EMpower1 LED NTx LO	59004058 - EM POWER1 CT LED NT1 2x6/150mA
	59004059 - EM POWER1 CT LED NT3 2x6/150mA
	59004092 - EM POWER1 B CT LED NT1 1x6/43mA
	59004093 - EM POWER1 B CT LED NT3 1x6/43mA
	59004094 - EM POWER1 B CT LED NT1 1x6/58mA
	59004095 - EM POWER1 B CT LED NT3 1x6/58mA
	59004096 - EM POWER1 B CT LED NT1 1x6/100mA
	59004097 - EM POWER1 B CT LED NT3 1x6/100mA
89800079 - EMpower2 LED NTx 1xHO / 1xLO	59004102 - EM POWER2 B CT LED NT1 1/350mA 1x6/100mA
	59004103 - EM POWER2 B CT LED NT3 1/350mA 1x6/100mA
89800080 -EMpower2 LED NTx 2xLO	59004104 - EM POWER2 B CT LED NT1 2x1x6/100mA
	59004105 - EM POWER2 B CT LED NT3 2x1x6/100mA BB
	59004106 - EM POWER2 B CT LED NT3 2x1x6/100mA
89800133 - EMpower1 LED NTx H1 140	59004321 - EM POWER1 CT NT1 4x6/206mA 140x30x21
	59004322 - EM POWER1 CT NT3 4x6/206mA 140x30x21

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 15 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.

To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

# ENEC Certificate

No. ENEC 36210

## Section 3 (continued)

EM Power LED drivers (continued)

Tridonic Article Number / Description	Zumtobel Article Number / Description
89800483 – EMpower2 LED NTx 1xL1/1xH1 140	59007269 - EM POWER2 CT NT1 2/150mA 4x6/206mA 140x30x21
	59007236 - EM POWER2 CT NT3 2/150mA 4x6/206mA 140x30x21
89800157 - EMpower1 LED NTx L1 140	59004331 - EM POWER1 CT NT1 3x6/150mA 140x30x21
	59004332 - EM POWER1 CT NT3 3x6/150mA 140x30x21
89800165 - EMpower1 LED NTx L1	59004623 - EM POWER1 CT NT1 3x6/150mA
	59004624 - EM POWER1 CT NT3 3x6/150mA
89800484 –EMpower 2 LED NTx 2xL1 140	59007270 - EM POWER2 CT NT1 3x6/150mA 2/150mA 140x30x21
	59007237 - EM POWER2 CT NT3 3x6/150mA 2/150mA 140x30x21
89800485 –EMpower 2 LED NTx 2xL1	59007271 - EM POWER2 CT NT1 3x6/150mA 2/150mA
	59007238 - EM POWER2 CT NT3 3x6/150mA 2/150mA
89800466 - EMpower1 LED NTx 500 HO IT 140	59005940 – EM POWER1 CT LED NT1 2/500mA 140X30X21
	59005941 – EM POWER1 CT LED NT3 2/500mA 140X30X21

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 16 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.

To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

# ENEC Certificate

No. ENEC 36210

## Section 3 (continued)

BSI Test Report 2413/8794065/1 of 2 to 2 of 2

Input 220-240V 50/60 Hz, tc + 80°C, ta -30°C - +55°C, for building in

Article No.	Description	Duration	Batteries
89800524	EM powerLED NTx 102 DIM 5W ZUM	1 - 8 Hrs	1 – 6 cell 2.4 to 7.2V 1.5 to 6 Ah NiMH or Li-Ion

This product is configurable with regards to Channel 1 / 2, Output current 5 – 700 mA, Output voltage 2.5 – 30V  
See test reports for full details

BSI Test Report 9634994/1 of 2 and 2 of 2

Rated 220-240V 50/60Hz, Classified as Built in

Article No.	Tridonic Model Number	Duration	Cells
89800598	EMpowerLED BASIC FX 213 LP 75W 220V	1hr	3 cells 1.6/2.2Ah NiCd/NiMh
89800599	EMpowerLED BASIC FX 214 LP 75W 220V	1hr	4 cells 1.6/2.2Ah NiCd/NiMh
89800600	EMpowerLED BASIC FX 215 LP 75W 220V	1hr	5 cells 1.6/2.2Ah NiCd/NiMh
89800601	EMpowerLED BASIC FX 233 LP 75W 220V	3hrs	3 cells 4Ah NiCd/NiMh
89800602	EMpowerLED BASIC FX 234 LP 75W 220V	3hrs	4 cells 4Ah NiCd/NiMh
89800603	EMpowerLED BASIC FX 235 LP 75W 220V	3hrs	5 cells 4Ah NiCd/NiMh

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 17 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.  
To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
A member of BSI Group of Companies.

# ENEC Certificate

No. ENEC 36210

## Section 3 (continued)

BSI Test Report 2413/8488254/1 of 4 to 4 of 4

Rated 220 – 240V 50/60HZ, For Built in and Independent Installation

Article No.	Tridonic Model No.	Duration	Cells
89800431	EMpowerLED ST FX 103 C NiCd 45W 50V	1hr 2 / 3 hrs	1.6Ah NiCd 4.0Ah NiCd
89800433	EMpowerLED PRO DIM 103 C NiCd 45W 50V	1hr 2 / 3 hrs	1.6Ah NiCd 4.0Ah NiCd
89800502	EMpowerLED ST FX 103 C NiMH 45W 50V	1hr 2 / 3 hrs	2.0Ah NiMH 4.0Ah NiMH
89800504	EMpowerLED PRO DIM 103 C NiMH 45W 50V	1hr 2 / 3 hrs	2.0Ah NiMH 4.0Ah NiMH
89800413	EMpowerLED ST FX 104 C NiCd 45W 50V	1hr 2 / 3 hrs	1.6Ah NiCd 4.0Ah NiCd
89800415	EMpowerLED PRO DIM 104 C NiCd 45W 50V	1hr 2 / 3 hrs	1.6Ah NiCd 4.0Ah NiCd
89800506	EMpowerLED ST FX 104 C NiMH 45W 50V	1hr 2 / 3 hrs	2.0Ah NiMH 4.0Ah NiMH
89800508	EMpowerLED PRO DIM 104 C NiMH 45W 50V	1hr 2 / 3 hrs	2.0Ah NiMH 4.0Ah NiMH
89800432	EMpowerLED ST FX 103 SR NiCd 45W 50V	1hr 2 / 3 hrs	1.6Ah NiCd 4.0Ah NiCd
89800434	EMpowerLED PRO DIM 103 SR NiCd 45W 50V	1hr 2 / 3 hrs	1.6Ah NiCd 4.0Ah NiCd
89800503	EMpowerLED ST FX 103 SR NiMH 45W 50V	1hr 2 / 3 hrs	2.0Ah NiMH 4.0Ah NiMH

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 18 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.

To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

# ENEC Certificate

No. ENEC 36210

## Section 3 (continued)

BSI Test Report 2413/8488254/1 of 4 to 4 of 4 (continued)

Article No.	Tridonic Model No.	Duration	Cells
89800505	EMpowerLED PRO DIM 103 SR NiMH 45W 50V	1hr 2 / 3 hrs	2.0Ah NiMH 4.0Ah NiMH
89800414	EMpowerLED ST FX 104 SR NiCd 45W 50V	1hr 2 / 3 hrs	1.6Ah NiCd 4.0Ah NiCd
89800416	EMpowerLED PRO DIM 104 SR NiCd 45W 50V	1hr 2 / 3 hrs	1.6Ah NiCd 4.0Ah NiCd
89800507	EMpowerLED ST FX 104 SR NiMH 45W 50V	1hr 2 / 3 hrs	2.0Ah NiMH 4.0Ah NiMH
89800509	EMpowerLED PRO DIM 104 SR NiMH 45W 50V	1hr 2 / 3 hrs	2.0Ah NiMH 4.0Ah NiMH

BSI Test Report 8961902-3 1 of 2 and 2 of 2 For Building in,

Input voltage 220-240V 50/60Hz ta +55°C, tc +75°C

Article No.	Description	Duration	Cells
89800525	EMpowerLED 12W Basic CLE NiCd	3 Hrs	3 Cell 1.6Ah NiCd
89800526	EMpowerLED 12W Basic CLE NiMh	3 Hrs	3 Cell 2.0Ah NiMH
89800176	EMpowerLED 15W Basic CLE NiCd	3 Hrs	3 Cell 1.6Ah NiCd
89800174	EMpowerLED 15W Basic CLE NiMh	3 Hrs	3 Cell 2.0Ah NiMH
89800616	EMpowerLED 15W Basic CLE NiMh DEX	3 Hrs	3 Cell 2.0Ah NiMH
89800615	EMpowerLED 12W Basic CLE NiMh DEX	3 Hrs	3 Cell 2.0Ah NiMH

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 19 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.

To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

# ENEC Certificate

No. ENEC 36210

## Section 3 (continued)

BSI Test Report 8861802-4/1 of 2 and 8861802-4/2 of 2 For Built in,

Rated Input 220-240V 50/60 Hz tc + 70°C, ta -25°C - +55°C max model dependent, for building in

Article No.	Description	Duration	Batteries
89899858	EMpowerLED 1W BASIC	1 Hr 2 Hrs 3 Hrs	2 Cells 2Ah NiMh 3 Cells 2Ah NiMh 3 Cells 2Ah NiMh
89899865	EMpowerLED 1W BASIC	1 Hr 2 Hrs 3 Hrs	2 Cells 2Ah NiMh 3 Cells 2Ah NiMh 3 Cells 2Ah NiMh
89899867	EMpowerLED 1W ST	1 Hr 2 Hrs 3 Hrs	2 Cells 2Ah NiMh 3 Cells 2Ah NiMh 3 Cells 2Ah NiMh
89899860	EMpowerLED 1W ST	1 Hr 2 Hrs 3 Hrs	2 Cells 2Ah NiMh 3 Cells 2Ah NiMh 3 Cells 2Ah NiMh
89800031	EMpowerLED 1W PRO EZ-3	1 Hr 2 Hrs 3 Hrs	2 Cells 2Ah NiMh 3 Cells 2Ah NiMh 3 Cells 2Ah NiMh
89800029	EMpowerLED 1W PRO EZ-3	1 Hr 2 Hrs 3 Hrs	2 Cells 2Ah NiMh 3 Cells 2Ah NiMh 3 Cells 2Ah NiMh
89899868	EMpowerLED 2W ST	1 Hr 2 Hrs 3 Hrs	3 Cells 2Ah NiMh 4 Cells 2Ah NiMh 5 Cells 2Ah NiMh
89899861	EMpowerLED 2W ST	1 Hr 2 Hrs 3 Hrs	3 Cells 2Ah NiMh 4 Cells 2Ah NiMh 5 Cells 2Ah NiMh
89800032	EMpowerLED 2W PRO EZ-3	1 Hr 2 Hrs 3 Hrs	3 Cells 2Ah NiMh 4 Cells 2Ah NiMh 5 Cells 2Ah NiMh

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 20 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.

To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
A member of BSI Group of Companies.



# ENEC Certificate

No. ENEC 36210

## Section 3 (continued)

BSI Test Report 8861802-4 (continued)

Article No.	Description	Duration	Batteries
89800030	EMpowerLED 2W PRO EZ-3	1 Hr 2 Hrs 3 Hrs	3 Cells 2Ah NiMh 4 Cells 2Ah NiMh 5 Cells 2Ah NiMh
89899859	EMpowerLED 2W BASIC	1 Hr 2 Hrs 3 Hrs	3 Cells 2Ah NiMh 4 Cells 2Ah NiMh 5 Cells 2Ah NiMh
89899866	EMpowerLED 2W BASIC	1 Hr 2 Hrs 3 Hrs	3 Cells 2Ah NiMh 4 Cells 2Ah NiMh 5 Cells 2Ah NiMh

BSI Test Report 2413/8713879/1 of 2 & 2 of 2, tc non-maintained 60°C, tc maintained 85°C, ta +30°C  
Classification for integral use

Input voltage 220-240V ~ 50/60 Hz

Tridonic reference	Hardware	Device configuration
R2A BASIC NM & R2A BASIC NM SB	A	EM R2A BASIC NM 131 1W
		EM R2A BASIC NM 111 2W
		EM R2A BASIC NM 132 2W
R2A PRO/ST/B-M & R2A PRO/ST/B-M SB	B	EM R2A BASIC M 111 2W
		EM R2A BASIC M 132 2W
		EM R2A ST NM 111 2W
		EM R2A ST M 111 2W
		EM R2A ST NM 132 2W
		EM R2A ST M 132 2W
		EM R2A PRO NM 111 2W
		EM R2A PRO M 111 2W
		EM R2A PRO NM 132 2W
		EM R2A PRO M 132 2W
		EM R2A PRO NM 122 2W
		EM R2A PRO M 122 2W

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 21 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.  
To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
A member of BSI Group of Companies.

# ENEC Certificate

No. ENEC 36210

## Section 3 (continued)

BSI Test Report 9634994/1 of 2 Rev 1 and 2 of 2 Rev 1

Rated 220-240V 50/60Hz, Classified for Built in

Article No.	Tridonic Model Number	Duration	Cells
89800598	EMpowerLED BASIC FX 213 LP 75W 220V	1hr	3 cells 1.6/2.2Ah NiCd/NiMh
89800599	EMpowerLED BASIC FX 214 LP 75W 220V	1hr	4 cells 1.6/2.2Ah NiCd/NiMh
89800600	EMpowerLED BASIC FX 215 LP 75W 220V	1hr	5 cells 1.6/2.2Ah NiCd/NiMh
89800601	EMpowerLED BASIC FX 233 LP 75W 220V	3hrs	3 cells 4Ah NiCd/NiMh
89800602	EMpowerLED BASIC FX 234 LP 75W 220V	3hrs	4 cells 4Ah NiCd/NiMh
89800603	EMpowerLED BASIC FX 235 LP 75W 220V	3hrs	5 cells 4Ah NiCd/NiMh

First Issued: 1997-03-14  
Latest Issue: 2019-06-05

Effective Date: 2019-06-05  
Expiry Date: 2021-02-05

Page: 22 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.  
To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
A member of BSI Group of Companies.

# ENEC Certificate

No. ENEC 36210

## Section 4

### Emergency LED Driver modules

BSI Test Report 8861802-4/1 of 2 and 8861802-4/2 of 2

Rated Input 220-240V 50/60 Hz tc + 70°C, ta -25°C - +55°C max model dependent, for building in

Article No.	Description	Duration	Batteries
89800492	EMpowerLED 3W PRO TX	3 Hrs	4 Cells 4Ah NiMh
89800510	EMpowerLED 3W PRO TX	3 Hrs	4 Cells 4Ah NiMh
89800121	EMpowerLED 4W BASIC	1 Hr 2 Hrs 3 Hrs	5 Cells 1.6Ah NiCD 5 Cells 4Ah NiCD 5 Cells 4Ah NiCD
89800122	EMpowerLED 4W BASIC	1 Hr 2 Hrs 3 Hrs	5 Cells 1.6Ah NiCD 5 Cells 4Ah NiCD 5 Cells 4Ah NiCD
89800124	EMpowerLED 4W ST	1 Hr 2 Hrs 3 Hrs	5 Cells 1.6Ah NiCD 5 Cells 4Ah NiCD 5 Cells 4Ah NiCD
89800126	EMpowerLED 4W PRO EZ-3	1 Hr 2 Hrs 3 Hrs	5 Cells 1.6Ah NiCD 5 Cells 4Ah NiCD 5 Cells 4Ah NiCD
89800444	EMpowerLED 4W BASIC NiMH	1 Hr 2 Hrs 3 Hrs	5 Cells 2Ah NiMh 5 Cells 4Ah NiMh 5 Cells 4Ah NiMh
89800445	EMpowerLED 4W ST NiMH	1 Hr 2 Hrs 3 Hrs	5 Cells 2Ah NiMh 5 Cells 4Ah NiMh 5 Cells 4Ah NiMh
89800446	EMpowerLED 4W PRO EZ-3 NiMH	1 Hr 2 Hrs 3 Hrs	5 Cells 2Ah NiMh 5 Cells 4Ah NiMh 5 Cells 4Ah NiMh

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 23 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.

To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

# ENEC Certificate

No. ENEC 36210

## Section 4 (continued)

BSI Test Report 8861802-1 / 1 of 2 and 8861802-1 / 2 of 2 Ta +55°C Classification for building in  
Input 220-240V 50/60 Hz tc + 70°C (BASIC), tc +75°C (ST & PRO) ta -5°C - +55°C (BASIC) ta -25°C - +55°C,

Article No.	Description	Duration	Batteries
89800178	EMconverterLED BASIC 103 50V	1 Hr 3 Hrs	3 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh 3 Cell 4Ah Ni-Cd/NiMh
89800179	EMconverterLED BASIC 104 50V	1 Hr 3 Hrs	4 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh 4 Cell 4Ah Ni-Cd/NiMh
89800187	EMconverterLED BASIC 104 90V	1 Hr 3 Hrs	4 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh 4 Cell 4Ah Ni-Cd/NiMh
89800188	EMconverterLED BASIC 105 90V	1 Hr 3 Hrs	5 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh 5 Cell 4Ah Ni-Cd/NiMh
89800308	EMconverterLED BASIC 104 200V	1 Hr 3 Hrs	4 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh 4 Cell 4Ah Ni-Cd/NiMh
89800309	EMconverterLED BASIC 105 200V	1 Hr 3 Hrs	5 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh 5 Cell 4Ah Ni-Cd/NiMh
89800314	EMconverterLED BASIC 103 NiMH 50V	1 Hr 3 Hrs	3 Cell 2.0Ah NiMh 3 Cell 4Ah NiMh
89800315	EMconverterLED BASIC 104 NiMH 50V	1 Hr 3 Hrs	4 Cell 2.0Ah NiMh 4 Cell 4Ah NiMh
89800320	EMconverterLED BASIC 104 NiMH 90V	1 Hr 3 Hrs	4 Cell 2.0Ah NiMh 4 Cell 4Ah NiMh
89800321	EMconverterLED BASIC 105 NiMH 90V	1 Hr 3 Hrs	5 Cell 2.0Ah NiMh 5 Cell 4Ah NiMh
89800326	EMconverterLED BASIC 104 NiMH 200V	1 Hr 3 Hrs	4 Cell 2.0Ah NiMh 4 Cell 4Ah NiMh
89800327	EMconverterLED BASIC 105 NiMH 200V	1 Hr 3 Hrs	5 Cell 2.0Ah NiMh 5 Cell 4Ah NiMh
89800181	EM converterLED ST 103 50V	1 Hr 3 Hrs	3 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh 3 Cell 4Ah Ni-Cd/NiMh

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 24 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.  
To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

# ENEC Certificate

No. ENEC 36210

## Section 4 (continued)

Article No.	Description	Duration	Batteries
89800182	EM converterLED ST 104 50V	3 Hrs	4 Cell 4Ah Ni-Cd/NiMh
89800183	EM converterLED ST 134 NiCd 50V	1 Hr 3 Hrs	4 Cell 1.6Ah Ni-Cd
89800190	EM converterLED ST 104 90V	1 Hr 3 Hrs	4 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh 4 Cell 4Ah Ni-Cd/NiMh
89800191	EM converterLED ST 105 90V	1 Hr 3 Hrs	5 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh 5 Cell 4Ah Ni-Cd/NiMh
89800192	EM converterLED ST 135 NiCd 90V	3 Hrs	5 Cell 1.6Ah Ni-Cd
89800310	EM converterLED ST 104 200V	1 Hr 3 Hrs	4 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh 4 Cell 4Ah Ni-Cd/NiMh
89800311	EM converterLED ST 105 200V	1 Hr 3 Hrs	5 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh 5 Cell 4Ah Ni-Cd/NiMh
89800184	EM converterLED PRO 103 50V	1 Hr 2/3 Hrs	3 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh 3 Cell 4Ah Ni-Cd/NiMh
89800185	EM converterLED PRO 104 50V	1 Hr 2/3 Hrs	4 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh 4 Cell 4Ah Ni-Cd/NiMh
89800186	EM converterLED PRO 134 NiCd 50V	3 Hrs	4 Cell 1.6Ah Ni-Cd
89800193	EM converterLED PRO 104 90V	1 Hr 2/3 Hrs	4 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh 4 Cell 4Ah Ni-Cd/NiMh
89800194	EM converterLED PRO 105 90V	1 Hr 2/3 Hrs	5 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh 5 Cell 4Ah Ni-Cd/NiMh
89800195	EM converterLED PRO 135 NiCd 90V	3 Hrs	5 Cell 1.6Ah Ni-Cd
89800312	EM converterLED PRO 104 200V	1 Hr 2/3 Hrs	4 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh 4 Cell 4Ah Ni-Cd/NiMh
89800313	EM converterLED PRO 105 200V	1 Hr 2/3 Hrs	5 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh 5 Cell 4Ah Ni-Cd/NiMh

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 25 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.

To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
A member of BSI Group of Companies.

# ENEC Certificate

No. ENEC 36210

## Section 4 (continued)

Article No.	Description	Duration	Batteries
89800316	EM converterLED ST 103 NiMH 50V	1 Hr 3 Hrs	3 Cell 2.0Ah NiMh 3 Cell 4Ah NiMh
89800317	EM converterLED ST 104 NiMH 50V	1 Hr 3 Hrs	4 Cell 2.0Ah NiMh 4 Cell 4Ah NiMh
89800322	EM converterLED ST 104 NiMH 90V	1 Hr 3 Hrs	4 Cell 2.0Ah NiMh 4 Cell 4Ah NiMh
89800323	EM converterLED ST 105 NiMH 90V	1 Hr 3 Hrs	5 Cell 2.0Ah NiMh 5 Cell 4Ah NiMh
89800328	EM converterLED ST 104 NiMH 200V	1 Hr 3 Hrs	4 Cell 2.0Ah NiMh 4 Cell 4Ah NiMh
89800329	EM converterLED ST 105 NiMH 200V	1 Hr 3 Hrs	5 Cell 2.0Ah NiMh 5 Cell 4Ah NiMh
89800318	EM converterLED PRO 103 NiMH 50V	1 Hr 2/3 Hrs	3 Cell 2.0Ah NiMh 3 Cell 4Ah NiMh
89800319	EM converterLED PRO 104 NiMH 50V	1 Hr 2/3 Hrs	4 Cell 2Ah NiMh 4 Cell 4Ah NiMh
89800324	EM converterLED PRO 104 NiMH 90V	1 Hr 2/3 Hrs	4 Cell 2.0Ah NiMh 4 Cell 4Ah NiMh
89800325	EM converterLED PRO 105 NiMH 90V	1 Hr 2/3 Hrs	5 Cell 2.0Ah NiMh 5 Cell 4Ah NiMh
89800330	EM converterLED PRO 104 NiMH 200V	1 Hr 2/3 Hrs	4 Cell 2.0Ah NiMh 4 Cell 4Ah NiMh
89800331	EM converterLED PRO 105 NiMH 200V	1 Hr 2/3 Hrs	5 Cell 2.0Ah NiMh 5 Cell 4Ah NiMh
89800532	EM converterLED PRO PT 103 NiMH 50V	1 Hr 2/3 Hrs	3 Cell 2.0Ah NiMh 3 Cell 4Ah NiMh

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 26 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.

To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).



# ENEC Certificate

No. ENEC 36210

## Section 4 (continued)

BSI Test Report 2413/8712385/ 1 of 2 & 2 of 2 Ta +55°C Tc 75°C Classification for building in

Input voltage 220-240V 50/60 Hz

Article No.	Description	Duration	Battery
89800548	EM converterLED PRO 103 50V TX	1 Hr 2 & 3 Hrs	3 Cell 2Ah NiMh 3 Cell 4Ah NiMh
89800549	EM converterLED PRO 104 50V TX	1 Hr 2 & 3 Hrs	4 Cell 2Ah NiMh 4 Cell 4Ah NiMh
89800550	EM converterLED PRO 104 200V TX	1 Hr 2 & 3 Hrs	4 Cell 2Ah NiMh 4 Cell 4Ah NiMh
89800551	EM converterLED PRO 105 200V TX	1 Hr 2 & 3 Hrs	5 Cell 2Ah NiMh 5 Cell 4Ah NiMh

BSI Test Report 2413/8715284/1 of 2 & 2 of 2 Ta +60°C, Tc +70°C, non-maintained Classification for building in

Input voltage 220-240V ~ 50/60 Hz

Article No.	Description	Duration	Battery
89800111	EMpowerLED NM 1W 3H BASIC Clip fix	3Hrs	3 Cell 2Ah NiMh 3 Cell 1.5/1.6Ah NiCd
89800112	EMpowerLED NM 1W 3H BASIC Screw fix	3Hrs	3 Cell 2Ah NiMh 3 Cell 1.5/1.6Ah NiCd
89800553	EMpowerLED BASIC NM 2W NiCd Screw fix	3Hrs	3 Cell 2.5Ah NiCd

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 27 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.

To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

# ENEC Certificate

No. ENEC 36210

## Section 4 (continued)

BSI Test Report 8998638/1 of 2 Rev 1 & 2 of 2 Rev 1 Ta -5°C - +55°C, Tc +75°C, non-maintained  
Classification for building in, Input voltage 220-240V ~ 50/60 Hz

Article No.	Description	Duration	Battery
89800558	EMconverterLED BASIC 202 NiCd / NiMH 50V	1 Hr 3 Hrs	2 Cells 1.6Ah NiCd / 2.2Ah NiMh 2 Cells 4Ah NiCd / 4Ah NiMh
89800559	EMconverterLED BASIC 203 NiCd / NiMH 50V	1 Hr 3 Hrs	3 Cells 1.6Ah NiCd / 2.2Ah NiMh 3 Cells 4Ah NiCd / 4Ah NiMh
89800560	EMconverterLED BASIC 204 NiCd / NiMH 50V	1 Hr 3 Hrs	4 Cells 1.6Ah NiCd / 2.2Ah NiMh 4 Cells 4Ah NiCd / 4Ah NiMh
89800561	EMconverterLED BASIC 203 NiCd / NiMH 90V	1 Hr 3 Hrs	3 Cells 1.6Ah NiCd / 2.2Ah NiMh 3 Cells 4Ah NiCd / 4Ah NiMh
89800562	EMconverterLED BASIC 204 NiCd / NiMH 90V	1 Hr 3 Hrs	4 Cells 1.6Ah NiCd / 2.2Ah NiMh 4 Cells 4Ah NiCd / 4Ah NiMh
89800574	EMconverterLED BASIC 203 NiCd / NiMH 250V	1 Hr 3 Hrs	3 Cells 1.6Ah NiCd / 2.2Ah NiMh 3 Cells 4Ah NiCd / 4Ah NiMh
89800563	EMconverterLED BASIC 204 NiCd / NiMH 250V	1 Hr 3 Hrs	4 Cells 1.6Ah NiCd / 2.2Ah NiMh 4 Cells 4Ah NiCd / 4Ah NiMh
89800564	EMconverterLED BASIC 205 NiCd / NiMH 250V	1 Hr 3 Hrs	5 Cells 1.6Ah NiCd / 2.2Ah NiMh 5 Cells 4Ah NiCd / 4Ah NiMh

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 28 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.

To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

# ENEC Certificate

No. ENEC 36210

## Section 4 (continued)

BSI Test Report 2413/8961811/1 of 2 Rev 1 & 2 of 2 Rev 1, 9775407/ 1 of 2 & 2 of 2  
 Ta -5°C - +55°C, Tc +75°C, non-maintained, Classification for building in  
 Input voltage 220-240V ~ 50/60 Hz

Article number	Description	Duration	Battery
89800575	EMconverterLED BASIC 202 MH/LiFePO4 50V	1 Hr 3 Hrs	1 Cell 1.5Ah LiFePO4 2 Cell 2.0Ah NiMH 2 Cell 3.0Ah LiFePO4 2 Cell 4.0Ah NiMH
89800576	EMconverterLED BASIC 203 MH/LiFePO4 50V	1 Hr 3 Hrs	2 Cell 3.0Ah LiFePO4 3 Cell 2.0Ah NiMH 4 Cell 6.0Ah LiFePO4 3 Cell 4.0Ah NiMH
89800577	EMconverterLED BASIC 204 MH/LiFePO4 50V	1 Hr 3 Hrs	2 Cell 3.0Ah LiFePO4 4 Cell 2.0Ah NiMH 5 Cell 7.5Ah LiFePO4 4 Cell 4.0Ah NiMH
89800578	EMconverterLED BASIC 203 MH/LiFePO4 90V	1 Hr 3 Hrs	2 Cell 3.0Ah LiFePO4 3 Cell 2.0Ah NiMH 4 Cell 6.0Ah LiFePO4 3 Cell 4.0Ah NiMH
89800579	EMconverterLED BASIC 204 MH/LiFePO4 90V	1 Hr 3 Hrs	2 Cell 3.0Ah LiFePO4 4 Cell 2.0Ah NiMH 5 Cell 7.5Ah LiFePO4 4 Cell 4.0Ah NiMH
89800592	EMconverterLED BASIC 203 MH/LiFePO4 250V	1 Hr 3 Hrs	2 Cell 3.0Ah LiFePO4 3 Cell 2.0Ah NiMH 4 Cell 6.0Ah LiFePO4 3 Cell 4.0Ah NiMH
89800581	EMconverterLED BASIC 204 MH/LiFePO4 250V	1 Hr 3 Hrs	2 Cell 3.0Ah LiFePO4 4 Cell 2.0Ah NiMH 5 Cell 7.5Ah LiFePO4 4 Cell 4.0Ah NiMH
89800582	EMconverterLED BASIC 205 MH/LiFePO4 250V	1 Hr 3 Hrs	2 Cell 3.0Ah LiFePO4 5 Cell 2.0Ah NiMH 6 Cell 9.0Ah LiFePO4 5 Cell 4.0Ah NiMH

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 29 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.  
 To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
 A member of BSI Group of Companies.

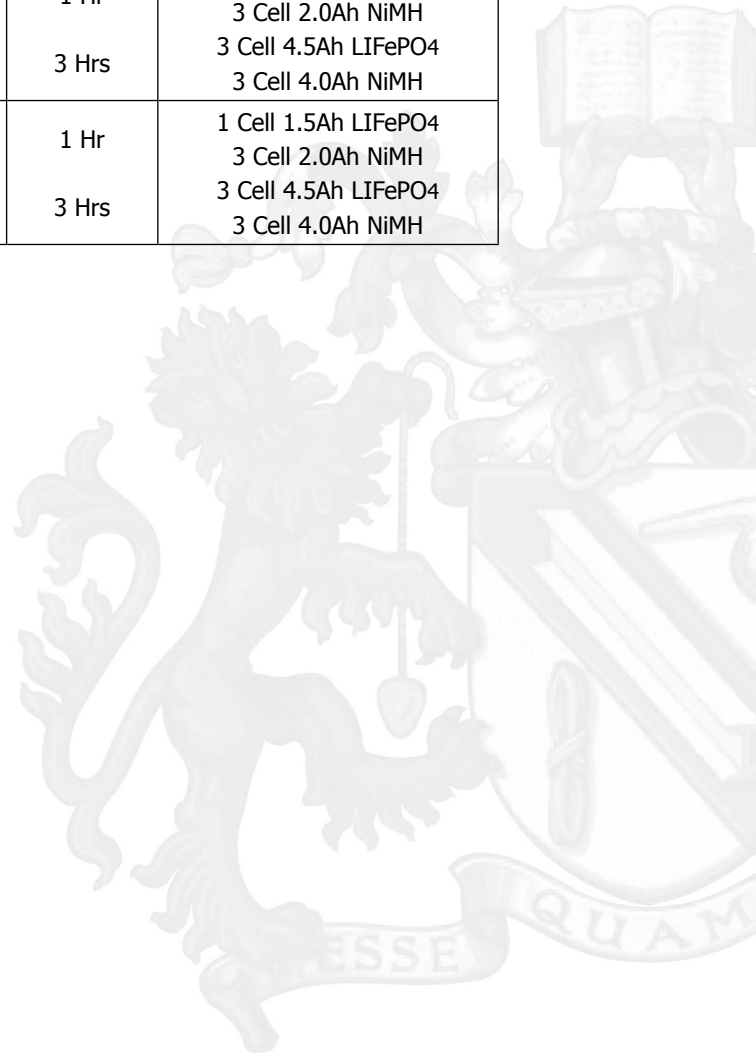
# ENEC Certificate

No. ENEC 36210

## Section 4 (continued)

BSI Test Report 2413/8961811/1 of 2 Rev 1 & 2 of 2 Rev 1, 9775407/ 1 of 2 & 2 of 2  
Continued

Article number	Description	Duration	Battery
89800708	EMconverterLED BASIC 202A MH/LiFePO4 50V	1 Hr	1 Cell 1.5Ah LiFePO4
		3 Hrs	3 Cell 2.0Ah NiMH 3 Cell 4.5Ah LiFePO4 3 Cell 4.0Ah NiMH
89800709	EMconverterLED BASIC 202A MH/LiFePO4 250	1 Hr	1 Cell 1.5Ah LiFePO4
		3 Hrs	3 Cell 2.0Ah NiMH 3 Cell 4.5Ah LiFePO4 3 Cell 4.0Ah NiMH



First Issued: 1997-03-14  
Latest Issue: 2019-06-05

Effective Date: 2019-06-05  
Expiry Date: 2021-02-05

Page: 30 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.  
To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
A member of BSI Group of Companies.

# ENEC Certificate

No. ENEC 36210

## Section 4 (continued)

BSI Test Report 9718714/1 of 2 & 2 of 2, Ta -25°C - +55°C, Tc +80°C, non-maintained  
 Classification for building in  
 Input voltage 220-240V ~ 50/60 Hz

Article number	Description	Duration	Battery
89800624	EMconverterLED ST 202 MH/LiFePO4 50V	1 Hr 2 Hr 3 Hrs	1 Cell 1.5Ah LiFePO4 2 Cell 2.0Ah NiMH 2 Cell 3.0Ah LiFePO4 2 Cell 4.0Ah NiMH 2 Cell 3.0Ah LiFePO4 2 Cell 4.0Ah NiMH
89800625	EMconverterLED ST 203 MH/LiFePO4 50V	1 Hr 2 Hr 3 Hrs	2 Cell 3.0Ah LiFePO4 3 Cell 2.2Ah NiMH 4 Cell 6.0Ah LiFePO4 3 Cell 4.0Ah NiMH 4 Cell 6.0Ah LiFePO4 3 Cell 4.0Ah NiMH
89800626	EMconverterLED ST 204 MH/LiFePO4 50V	1 Hr 2 Hr 3 Hrs	2 Cell 3.0Ah LiFePO4 3 Cell 2.2Ah NiMH 5 Cell 7.5Ah LiFePO4 4 Cell 4.0Ah NiMH 5 Cell 7.5Ah LiFePO4 4 Cell 4.0Ah NiMH
89800634	EMconverterLED ST 203 MH/LiFePO4 250V	1 Hr 2 Hr 3 Hrs	2 Cell 3.0Ah LiFePO4 3 Cell 2.2Ah NiMH 4 Cell 6.0Ah LiFePO4 3 Cell 4.0Ah NiMH 4 Cell 6.0Ah LiFePO4 3 Cell 4.0Ah NiMH
89800635	EMconverterLED ST 204 MH/LiFePO4 250V	1 Hr 2 Hr 3 Hrs	2 Cell 3.0Ah LiFePO4 3 Cell 2.2Ah NiMH 5 Cell 7.5Ah LiFePO4 4 Cell 4.0Ah NiMH 5 Cell 7.5Ah LiFePO4 4 Cell 4.0Ah NiMH

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 31 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.  
 To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
 A member of BSI Group of Companies.

# ENEC Certificate

No. ENEC 36210

## Section 4 (continued)

BSI Test Report 9718714/1 of 2 & 2 of 2 continued

Article number	Description	Duration	Battery
89800636	EMconverterLED ST 205 MH/LiFePO4 250V	1 Hr	2 Cell 3.0Ah LiFePO4
		2 Hr	3 Cell 2.2Ah NiMH
		3 Hrs	5 Cell 9.0Ah LiFePO4 4 Cell 4.0Ah NiMH
89800627	EMconverterLED PRO 202 MH/LiFePO4 50V	1 Hr	5 Cell 9.0Ah LiFePO4
		2 Hr	4 Cell 4.0Ah NiMH
		3 Hrs	5 Cell 9.0Ah LiFePO4 4 Cell 4.0Ah NiMH
89800628	EMconverterLED PRO 203 MH/LiFePO4 50V	1 Hr	1 Cell 1.5Ah LiFePO4
		2 Hr	2 Cell 2.2Ah NiMH
		3 Hrs	2 Cell 3.0Ah LiFePO4 2 Cell 4.0Ah NiMH
89800629	EMconverterLED PRO 204 MH/LiFePO4 50V	1 Hr	2 Cell 3.0Ah LiFePO4
		2 Hr	3 Cell 2.2Ah NiMH
		3 Hrs	4 Cell 6.0Ah LiFePO4 3 Cell 4.0Ah NiMH
89800637	EMconverterLED PRO 203 MH/LiFePO4 250V	1 Hr	4 Cell 6.0Ah LiFePO4
		2 Hr	3 Cell 4.0Ah NiMH
		3 Hrs	4 Cell 6.0Ah LiFePO4 3 Cell 4.0Ah NiMH

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 32 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.

To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).



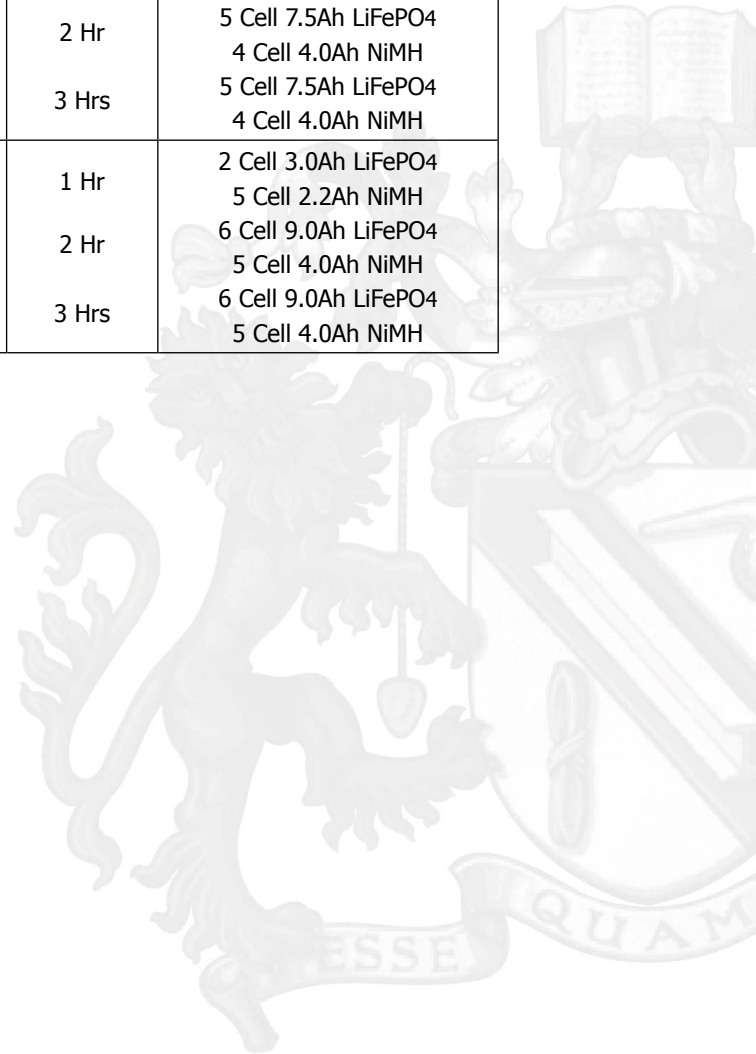
# ENEC Certificate

No. ENEC 36210

## Section 4 (continued)

BSI Test Report 9718714/1 of 2 & 2 of 2 continued

Article number	Description	Duration	Battery
89800638	EMconverterLED PRO 204 MH/LiFePO4 250V	1 Hr	2 Cell 3.0Ah LiFePO4 4 Cell 2.2Ah NiMH
		2 Hr	5 Cell 7.5Ah LiFePO4 4 Cell 4.0Ah NiMH
		3 Hrs	5 Cell 7.5Ah LiFePO4 4 Cell 4.0Ah NiMH
89800639	EMconverterLED PRO 205 MH/LiFePO4 250V	1 Hr	2 Cell 3.0Ah LiFePO4 5 Cell 2.2Ah NiMH
		2 Hr	6 Cell 9.0Ah LiFePO4 5 Cell 4.0Ah NiMH
		3 Hrs	6 Cell 9.0Ah LiFePO4 5 Cell 4.0Ah NiMH



First Issued: 1997-03-14  
Latest Issue: 2019-06-05

Effective Date: 2019-06-05  
Expiry Date: 2021-02-05

Page: 33 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.  
To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
A member of BSI Group of Companies.

# ENEC Certificate

No. ENEC 36210

## Section 5 LED Driver Modules

Input voltage 220-240V 50/60Hz or /50/60/0 Hz, ta +50°C or +55°C, tc +85°C / +90°C

Report number	Article No.	Description
8961902-1 1 of 1 Rev 1 2 of 2 Rev 2	89800255	LCBI 15W 350mA BASIC PHASE_CUT LP
	89800256	LCBI 15W 500mA BASIC PHASE_CUT LP
	89800257	LCBI 15W 700mA BASIC PHASE_CUT LP
	89800277	LCI 15W 350mA stepDim LP
	89800278	LCI 15W 500mA stepDim LP
	89800279	LCI 15W 700mA stepDim LP

Input voltage 220-240V 50/60Hz, ta +50°C, tc +75°C

8961902-2 1 of 1 Rev 1 2 of 2 Rev 2	89800289	LCBU 10W 12V BASIC PHASE-CUT SR
	89800290	LCBU 25W 12V BASIC PHASE-CUT SR
	89800307	LCBI 25W 700mA BASIC PHASE-CUT SR

First Issued: 1997-03-14  
Latest Issue: 2019-06-05

Effective Date: 2019-06-05  
Expiry Date: 2021-02-05

Page: 34 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.  
To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
A member of BSI Group of Companies.

# ENEC Certificate

No. ENEC 36210

## Section 5 (continued)

BSI Test Report 8961902-3/1 of 2 Rev 1 and 2 of 2 Rev 2 For Building in,

Input voltage 220-240V 50/60/0 Hz, ta +55°C, tc +75°C

Article No.	Description	Duration	Battery
89800527	EMpowerLED 12W Basic CLE CPS	N/A	N/A
89800177	EMpowerLED 15W Basic CLE CPS	N/A	N/A

BSI Test Report 8861802-2/1 of 2 & 2 of 2 Ta +55°C

Input voltage 220-240V ~ 50/60/0 Hz Classification for building in

Article No.	Description	Duration	Battery
89800435	EM powerLED CPS FX LP 80W	N/A	N/A

BSI Test Report 2413/8254529/ 1 of 4 to 4 of 4

Rated 220-240 50/60/0Hz For Built in (C) and Independent Installation (SR)

Article No.	Description	tc	ta
89800436	EMpowerLED CPS FX C 50W 50V	+ 85°C	-5°C to + 55°C Pout <= 45W -5°C to + 50°C Pout > 45W
89800437	EMpowerLED CPS FX SR 50W 50V	+ 80°C	-5°C to + 50°C Pout <= 40W -5°C to + 40°C Pout > 40W

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 35 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.

To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
A member of BSI Group of Companies.

# ENEC Certificate

No. ENEC 36210

## Section 5 (continued)

EM Power LED drivers,

BSI Test Report 8861802-3 / 1 of 2 and 8861802-3 / 2 of 2 Classification Integral,  
Input 220-240V 50/60 Hz, CPS Input 220-240V 0/50/60 Hz tc + 70°C  
DALI ta -25°C - +55°C, NPS ta -30°C - +55°C, NSI ta -10°C - +55°C

Tridonic Article Number / Description	Zumtobel Article Number / Description
89800047 - EMpower1 LED DALI HO 140	59004073 - EM POWER1 CT LED DALI 1/650mA 140x30x21
89800048 - EMpower1 LED DALI HO	59004071 - EM POWER1 CT LED DALI 2x6/210mA
	59004072 - EM POWER1 CT LED DALI 1x6/270mA
	59004082 - EM POWER1 CT LED DALI 1/650mA
	59004084 - EM POWER1 CT LED DALI 2x6/330mA
89800055 - EMpower2 LED DALI 2xHO	59004076 - EM POWER2 CT LED DALI 1/350mA 2x6/212mA
	59004077 - EM POWER2 CT LED DALI 2x2x6/212mA
89800149 - EMpower2 LED DALI 2xHO 140	59004527 - EM POWER2 CT LED DALI 2x2x6/212mA 140x30x21
89800072 - EMpower1 LED DALI LO	59004070 - EM POWER1 CT LED DALI 2x6/150mA
	59004086 - EM POWER1 B CT LED DALI 1x6/43mA
	59004087 - EM POWER1 B CT LED DALI 1x6/58mA
	59004088 - EM POWER1 B CT LED DALI 1x6/100mA
89800075 - EMpower2 LED DALI 1xHO/1xLO	59004098 - EM POWER2 B CT LED DALI 1/350mA 1x6/100mA
89800076 - EMpower2 LED DALI 2xLO	59004099 - EM POWER2 B CT LED DALI 2x1x6/100mA
89800135 - EMpower1 LED DALI H1 140	59004324 - EM POWER1 CT LED DALI 4x6/206mA 140x30x21
89800143 - EMpower1 LED DALI H1	59004695 - EM POWER1 CT LED DALI 4x6/206mA
89800139 - EMpower2 LED DALI 1xL1/1xH1 140	59004329 - EM POWER2 CT LED DALI 2/150mA 4x6/206mA 140x30x21
89800147 - EMpower2 LED DALI 1xL1/1xH1	59004696 - EM POWER2 CT LED DALI 2/150mA 4x6/206mA
89800161 - EMpower1 LED DALI L1 140	59004334 - EM POWER1 CT LED DALI 3x6/150mA 140x30x21

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 36 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.  
To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

# ENEC Certificate

No. ENEC 36210

## Section 5 (continued)

EM Power LED drivers (continued)

Tridonic Article Number / Description	Zumtobel Article Number / Description
89800169 - EMpower1 LED DALI L1	59004626 - EM POWER1 CT LED DALI 3x6/150mA
89800162 - EMpower2 LED DALI 2xL1 140	59004339 - EM POWER2 CT LED DALI 2/150mA 3x6/150mA 140x30x21
89800170 - EMpower2 LED DALI 2xL1	59004631 - EM POWER2 CT LED DALI 2/150mA 3x6/150mA
89800363 - EMpower1 LED DALI H2	59005194 - EM POWER1 CT LED DALI 2/400mA
89800468 - EMpower1 LED DALI HO IT 140	59005944 - EM POWER1 CT LED NDA 2/650mA 140x30x21
89800049 - EMpower1 LED NSI HO 140	59004069 - EM POWER1 CT LED NSI 1/650mA 140x30x21
89800050 - EMpower1 LED NSI HO	59004067 - EM POWER1 CT LED NSI 2x6/210mA
	59004068 - EM POWER1 CT LED NSI 1x6/270mA
	59004081 - EM POWER1 CT LED NSI 1/650mA 160x30x21
	59004085 - EM POWER1 CT LED NSI 2x6/330mA
89800056 - EMpower2 LED NSI 2xHO	59004074 - EM POWER2 CT LED NSI 1/350mA 2x6/212mA
	59004075 - EM POWER2 CT LED NSI 2x2x6/212mA
89800150 - EMpower2 LED NSI 2xHO 140	59004528 - EM POWER2 CT LED NSI 2x2x6/212mA 140x30x21
89800073 - EMpower1 LED NSI LO	59004066 - EM POWER1 CT LED NSI 2x6/150mA
	59004089 - EM POWER1 B CT LED NSI 1x6/43mA
	59004090 - EM POWER1 B CT LED NSI 1x6/58mA
	59004091 - EM POWER1 B CT LED NSI 1x6/100mA
89800077 - EMpower2 LED NSI 1xHO / 1xLO	59004100 - EM POWER2 B CT LED NSI 1/350mA 1x6/100mA
89800078 - EMpower2 LED NSI 2xLO	59004101 - EM POWER2 B CT LED NSI 2x1x6/100mA
89800134 - EMpower1 LED NSI H1 140	59004323 - EM POWER1 CT NSI 4x6/206mA 140x30x21
89800142 - EMpower1 LED NSI H1	59004693 - EM POWER1 CT NSI 4x6/206m

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 37 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.

To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

# ENEC Certificate

No. ENEC 36210

## Section 5 (continued)

EM Power LED drivers (continued)

Tridonic Article Number / Description	Zumtobel Article Number / Description
89800138 - EMpower2 LED NSI 1xL1/1xH1 140	59004328 - EM POWER2 CT NSI 2/150mA 4x6/206mA 140x30x21
89800146 - EMpower2 LED NSI 1xL1/1xH1	59004694 - EM POWER2 CT NSI 2/150mA 4x6/206mA
89800159 - EMpower1 LED NSI L1 140	59004333 - EM POWER1 CT NSI 3x6/150mA 140x30x21
89800167 - EMpower1 LED NSI L1	59004625 - EM POWER1 CT NSI 3x6/150mA
89800160 - EMpower2 LED NSI 2xL1 140	59004338 - EM POWER2 CT NSI 2/150mA 3x6/150mA 140x30x21
89800168 - EMpower2 LED NSI 2xL1	59004630 - EM POWER2 CT NSI 2/150mA 3x6/150mA
89800365 - EMpower1 LED NSI H2	59005198 - EM POWER1 CT LED NSI 2/400 mA
89800467 - EMpower1 LED NSI HO IT 140	59005943 - EM POWER1 CT LED NSI 2/650 mA 140x30x21
89800053 - EMpower1 LED NPS HO 140	59004108 - EM POWER1 CT LED NPS 1x6/270mA 140x30x21
	59004109 - EM POWER1 CT LED NPS 1/650mA 140x30x21
89800054 - EMpower1 LED NPS HO	59004107 - EM POWER1 CT LED NPS 1/650mA
89800058 - EMpower2 LED NPS 2xHO	59004113 - EM POWER2 CT LED NPS 2x2x6/212mA
89800152 - EMpower2 LED NPS 2xHO 140	59004531 - EM POWER2 CT LED NPS 2x2x6/212mA 140x30x21
89800081 - EMpower2 LED NPS 2xLO	59004114 - EM POWER2 B CT LED NPS 2x1x6/100mA
89800082 - EMpower1 LED NPS LO	59004110 - EM POWER1 B CT LED NPS 1x6/43mA
	59004111 - EM POWER1 B CT LED NPS 1x6/58mA
	59004112 - EM POWER1 B CT LED NPS 1x6/100mA
89800083 - EMpower2 LED NPS 2xLO	59004115 - EM POWER2 B CT LED NPS 1/350mA 1x6/100mA
89800136 - EMpower1 LED NPS H1 140	59004325 - EM POWER1 CT NPS 4x6/206mA 140x30x21

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 38 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.

To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).



# ENEC Certificate

No. ENEC 36210

## Section 5 (continued)

EM Power LED drivers (continued)

Tridonic Article Number / Description	Zumtobel Article Number / Description
89800144 - EMpower1 LED NPS H1	59004691 - EM POWER1 CT NPS 4x6/206mA
89800140 - EMpower2 LED NPS 1xL1/1xH1 140	59004330 - EM POWER2 CT NPS 2/150mA 4x6/206mA 140x30x21
89800148 - EMpower2 LED NPS 1xL1/1xH1	59004692 - EM POWER2 CT NPS 2/150mA 4x6/206mA
89800163 - EMpower1 LED NPS L1 140	59004335 - EM POWER1 CT NPS 3x6/150mA 140x30x21
89800171 - EMpower1 LED NPS L1	59004627 - EM POWER1 CT NPS 3x6/150mA
89800172 - EMpower2 LED NPS 2xL1 140	59004340 - EM POWER2 CT NPS 2/150mA 3x6/150mA 140x30x21
89800173 - EMpower2 LED NPS 2xL1	59004632 - EM POWER2 CT NPS 2/150mA 3x6/150mA
89800364 - EMpower1 LED NPS H2	59005196 - EM POWER1 CT LED NPS 2/400mA
89800469 - EMpower1 LED NPS HO IT140	59005942 - EM POWER1 CT LED NPS 2/650mA 140X30X21

BSI Test Report 8960256/1 of 2 Rev 1 to 2 of 2 Rev 1

Input 220-240V AC 50/60 Hz 220-240V DC,  $t_c + 80^\circ\text{C}$ ,  $t_a -30^\circ\text{C} - +55^\circ\text{C}$ , for building in

Article No.	Description	Output rating
89800571	EM powerLED NDA 100 DIM 5W ZUM	Channel 1 / 2, Output current 5 – 700 mA, Output voltage 2.5 – 30V. See report for full details
89800572	EM powerLED NPS 100 5W ZUM	

BSI Test Report 9626426/1 of 2 to 2 of 2

Input 220-240V AC 50/60 Hz 220-240V DC,  $t_c + 80^\circ\text{C}$ ,  $t_a -30^\circ\text{C} - +55^\circ\text{C}$ , for building in

Article No.	Description	Output rating
89800573	EM powerLED NSI 100 DIM 5W ZUM	Channel 1 / 2, Output current 30 – 700 mA, Output voltage 2.4 – 30V. See report for full details

First Issued: 1997-03-14

Latest Issue: 2019-06-05

Effective Date: 2019-06-05

Expiry Date: 2021-02-05

Page: 39 of 39

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request. To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK. A member of BSI Group of Companies.