

## 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

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Page: 1 of 35

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# 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<br>EN 61347-2-3:2011<br>EN 61347-2-7:2006, EN 61347-2-7:2012<br>EN 60929:2006, EN 60929:2011<br>EN 60925:1991+A1+A2<br>EN 61347-1:2008+A1+A2                       | 3    |
| 2       | Emergency modules for Fluorescent lamps                                  | EN 61347-2-3:2001+A1+A2<br>EN 61347-2-3:2011<br>EN 61347-2-7:2006, EN 61347-2-7:2012<br>EN 60929:2006, EN 60929:2011<br>EN 60925:1991+A1+A2<br>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<br>EN 61347-2-13:2006,<br>EN 61347-2-13:2014+A1<br>EN 61347-1:2008+A1,<br>EN 61347-1:2008+A1+A2<br>EN 61347-1:2015<br>EN 62384:2006, EN 62384:2006+A1 | 13   |
| 4       | Emergency LED Driver Modules   | EN 61347-2-7:2006, EN 61347-2-7:2012<br>EN 61347-2-13:2006, EN 61347-2-13:2014<br>EN 61347-1:2008+A1+A2,<br>EN 61347-1:2015<br>EN 62384:2006+A1  | 22   |
| 5       | LED driver modules   | EN 61347-2-13:2006<br>EN 61347-2-13:2014<br>EN 61347-1:2008+A1+A2<br>EN 61347-1:2015<br>EN 62384:2006+A1   | 30   |

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Latest Issue: 2018-06-11

Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 2 of 35

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# 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<br>3hrs | 5 cell NiCd or 5 cell NiMh |
| 89899889       | PC 1x54-6 T5 Combo Ip | T5 1x54W | 1hr<br>3hrs | 6 cell NiCd or 6 cell NiMh |
| 89899891       | PC 1x80-6 T5 Combo Ip | T5 1x80W | 1hr<br>3hrs | 6 cell NiCd or 6 cell NiMh |
| 89899880       | PC 2x24-4 T5 Combo Ip | T5 2x24W | 1hr<br>3hrs | 4 cell NiCd or 4 cell NiMh |
| 89899890       | PC 2x54-6 T5 Combo Ip | T5 2x54W | 1hr<br>3hrs | 6 cell NiCd or 6 cell NiMh |

First Issued: 1997-03-14

Latest Issue: 2018-06-11

Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 3 of 35

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# 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: 2018-06-11

Effective Date: 2018-06-11  
Expiry Date: 2021-02-05

Page: 4 of 35

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# 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<br>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<br>1 x 18W TCT        | 3hrs     | 4 cells 4Ah NiCd / NiMH |
| 89899976    | PC 1x26-4 TC COMBO    | 1 x 26W TCD<br>1 x 26W TCT        | 3hrs     | 4 cells 4Ah NiCd / NiMH |
| 89899929    | PC 1x26/32-5 TC COMBO | 1 x 26W<br>TCD/TCT<br>1 x 32W TCT | 3hrs     | 5 cells 4Ah NiCd / NiMH |
| 89899928    | PC 2x18-4 TC COMBO    | 2 x 18W TCD<br>2 x 18W TCT        | 3hrs     | 4 cells 4Ah NiCd / NiMH |

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Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 5 of 35

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# 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<br>1x26W TCT               | 1hr / 3hrs | 3 cell 4Ah NiCd/ NiMH<br>3 cell 1.5Ah NiCd<br>3 cell 2Ah NiMH |
| 89899982    | PC 2x18-3 TC COMBO       | 2x18W TCD<br>2x18W TCT               | 1hr / 3hrs | 3 cell 4Ah NiCd/ NiMH<br>3 cell 1.5Ah NiCd<br>3 cell 2Ah NiMH |
| 89899931    | PC 1x26/32/42-6 TC COMBO | 1x26W<br>TCD/TCT<br>1x32W/42W<br>TCT | 1hr / 3hrs | 6 cell 4Ah NiCd/ NiMH<br>6 cell 1.5Ah NiCd<br>6 cell 2Ah NiMH |
| 89899984    | PC 2x26-3 TC COMBO       | 2x26W TCD<br>2x26W TCT               | 1hr / 3hrs | 3 cell 4Ah NiCd/ NiMH<br>3 cell 1.5Ah NiCd<br>3 cell 2Ah NiMH |

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Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 6 of 35

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# 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<br>1hr<br>3hrs | 6 cells 1.6Ah NiCd<br>6 cells 2Ah NiMH<br>6 cells 4Ah NiCd / NiMH |
| 89899990    | PC 1x18-3 TC COMBO       | 1x18W TCD<br>1x18W TCT    | 1hr<br>1hr<br>3hrs | 3 cells 1.6Ah NiCd<br>3 cells 2Ah NiMH<br>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<br>2x26/32W TCT | 1hr<br>1hr<br>3hrs | 5 cells 1.6Ah NiCd<br>5 cells 2Ah NiMH<br>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 |

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Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 7 of 35

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# 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 |                    |          |       |

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Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 8 of 35

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# 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<br>3hrs | 4 cells C's NiCd / NiMH<br>4 cells D NiCd |
| 89800205    | EM 05 Basic LP G2 | *     | 1hr<br>3hrs | 5 cells C's NiCd / NiMH<br>5 cells D NiCd |
| 89800208    | EM 06 Basic LP G2 | *     | 1hr<br>3hrs | 6 cells C's NiCd / NiMH<br>6 cells D NiCd |
| 89800201    | EM 04 ST G2       | *     | 1hr<br>3hrs | 4 cells C's NiCd / NiMH<br>4 cells D NiCd |
| 89800204    | EM 05 ST G2       | *     | 1hr<br>3hrs | 5 cells C's NiCd / NiMH<br>5 cells D NiCd |
| 89800207    | EM 06 ST G2       | *     | 1hr<br>3hrs | 6 cells C's NiCd / NiMH<br>6 cells D NiCd |
| 89800197    | EM 03 PRO G2      | *     | 1hr<br>3hrs | 3 cells C's NiCd / NiMH<br>3 cells D NiCd |
| 89800200    | EM 04 PRO G2      | *     | 1hr<br>3hrs | 4 cells C's NiCd / NiMH<br>4 cells D NiCd |
| 89800203    | EM 05 PRO G2      | *     | 1hr<br>3hrs | 5 cells C's NiCd / NiMH<br>5 cells D NiCd |
| 89800206    | EM 06 PRO G2      | *     | 1hr<br>3hrs | 6 cells C's NiCd / NiMH<br>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

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Expiry Date: 2021-02-05

Page: 9 of 35

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# 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<br>3hrs | 3 cells 2Ah NiMH<br>3 cells 4Ah NiMH |
| 89800347    | EM 06 Basic LP NiMH G2 | *     | 1hr<br>3hrs | 6 cells 2Ah NiMH<br>6 cells 4Ah NiMH |
| 89800336    | EM 03 ST NiMH G2       | *     | 1hr<br>3hrs | 3 cells 2Ah NiMH<br>3 cells 4Ah NiMH |
| 89800337    | EM 04 ST NiMH G2       | *     | 1hr<br>3hrs | 4 cells 2Ah NiMH<br>4 cells 4Ah NiMH |
| 89800338    | EM 05 ST NiMH G2       | *     | 1hr<br>3hrs | 5 cells 2Ah NiMH<br>5 cells 4Ah NiMH |
| 89800339    | EM 06 ST NiMH G2       | *     | 1hr<br>3hrs | 6 cells 2Ah NiMH<br>6 cells 4Ah NiMH |
| 89800332    | EM 03 PRO NiMH G2      | *     | 1hr<br>3hrs | 3 cells 2Ah NiMH<br>3 cells 4Ah NiMH |
| 89800333    | EM 04 PRO NiMH G2      | *     | 1hr<br>3hrs | 4 cells 2Ah NiMH<br>4 cells 4Ah NiMH |
| 89800334    | EM 05 PRO NiMH G2      | *     | 1hr<br>3hrs | 5 cells 2Ah NiMH<br>5 cells 4Ah NiMH |
| 89800335    | EM 06 PRO NiMH G2      | *     | 1hr<br>3hrs | 6 cells 2Ah NiMH<br>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: 2018-06-11

Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 10 of 35

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# 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: 2018-06-11

Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 11 of 35

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# 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 |

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Latest Issue: 2018-06-11

Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 12 of 35

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# 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<br>SR 50W 50V | 3hrs<br>1hr | 4 cells 4Ah NiCd/NiMh<br>4 cells 1.6/2.0Ah NiCd/NiMh |
| 89800430    | EMpowerLED BASIC FX 103<br>SR 50W 50V | 3hrs<br>1hr | 3 cells 4Ah NiCd/NiMh<br>3 cells 1.6/2.0Ah NiCd/NiMh |
| 89800411    | EMpowerLED BASIC FX 104<br>C 50W 50V  | 3hrs<br>1hr | 4 cells 4Ah NiCd/NiMh<br>4 cells 1.6/2.0Ah NiCd/NiMh |
| 89800429    | EMpowerLED BASIC FX 103<br>C 50W 50V  | 3hrs<br>1hr | 3 cells 4Ah NiCd/NiMh<br>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<br>LP 80W 200V | 1 Hr<br>3 Hrs<br>1 Hr High output<br>3 Hr High output | 4 Cell 1.6Ah Ni-Cd/2.0Ah NiMh<br>4 Cell 4Ah Ni-Cd/NiMh<br>5 Cell 1.6Ah Ni-Cd/2.0Ah NiMh<br>5 Cell 4Ah Ni-Cd/NiMh |

First Issued: 1997-03-14

Latest Issue: 2018-06-11

Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 13 of 35

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# 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<br>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: 2018-06-11

Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 14 of 35

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# 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: 2018-06-11

Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 15 of 35

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# 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<br>140x30x21 |
|   | 59007236 - EM POWER2 CT NT3 2/150mA 4x6/206mA<br>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<br>140x30x21 |
|   | 59007237 - EM POWER2 CT NT3 3x6/150mA 2/150mA<br>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: 2018-06-11

Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 16 of 35

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No. ENEC 36210

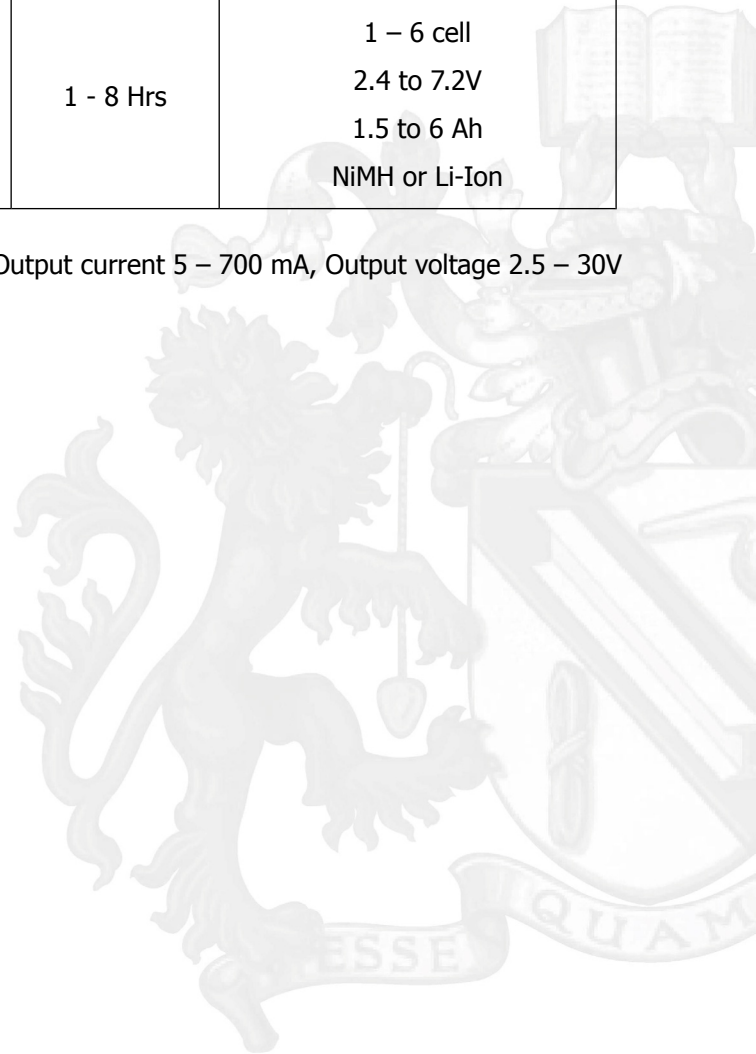
## Section 3 (continued)

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<br>2.4 to 7.2V<br>1.5 to 6 Ah<br>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



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Latest Issue: 2018-06-11

Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 17 of 35

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# 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<br>NiCd 45W 50V    | 1hr<br>2 / 3 hrs | 1.6Ah NiCd<br>4.0Ah NiCd |
| 89800433    | EMpowerLED PRO DIM 103<br>C NiCd 45W 50V  | 1hr<br>2 / 3 hrs | 1.6Ah NiCd<br>4.0Ah NiCd |
| 89800502    | EMpowerLED ST FX 103 C<br>NiMH 45W 50V    | 1hr<br>2 / 3 hrs | 2.0Ah NiMH<br>4.0Ah NiMH |
| 89800504    | EMpowerLED PRO DIM 103<br>C NiMH 45W 50V  | 1hr<br>2 / 3 hrs | 2.0Ah NiMH<br>4.0Ah NiMH |
| 89800413    | EMpowerLED ST FX 104 C<br>NiCd 45W 50V    | 1hr<br>2 / 3 hrs | 1.6Ah NiCd<br>4.0Ah NiCd |
| 89800415    | EMpowerLED PRO DIM 104<br>C NiCd 45W 50V  | 1hr<br>2 / 3 hrs | 1.6Ah NiCd<br>4.0Ah NiCd |
| 89800506    | EMpowerLED ST FX 104 C<br>NiMH 45W 50V    | 1hr<br>2 / 3 hrs | 2.0Ah NiMH<br>4.0Ah NiMH |
| 89800508    | EMpowerLED PRO DIM 104<br>C NiMH 45W 50V  | 1hr<br>2 / 3 hrs | 2.0Ah NiMH<br>4.0Ah NiMH |
| 89800432    | EMpowerLED ST FX 103 SR<br>NiCd 45W 50V   | 1hr<br>2 / 3 hrs | 1.6Ah NiCd<br>4.0Ah NiCd |
| 89800434    | EMpowerLED PRO DIM 103<br>SR NiCd 45W 50V | 1hr<br>2 / 3 hrs | 1.6Ah NiCd<br>4.0Ah NiCd |
| 89800503    | EMpowerLED ST FX 103 SR<br>NiMH 45W 50V   | 1hr<br>2 / 3 hrs | 2.0Ah NiMH<br>4.0Ah NiMH |

First Issued: 1997-03-14

Latest Issue: 2018-06-11

Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 18 of 35

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# 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<br>2 / 3 hrs | 2.0Ah NiMH<br>4.0Ah NiMH |
| 89800414    | EMpowerLED ST FX 104 SR NiCd 45W 50V   | 1hr<br>2 / 3 hrs | 1.6Ah NiCd<br>4.0Ah NiCd |
| 89800416    | EMpowerLED PRO DIM 104 SR NiCd 45W 50V | 1hr<br>2 / 3 hrs | 1.6Ah NiCd<br>4.0Ah NiCd |
| 89800507    | EMpowerLED ST FX 104 SR NiMH 45W 50V   | 1hr<br>2 / 3 hrs | 2.0Ah NiMH<br>4.0Ah NiMH |
| 89800509    | EMpowerLED PRO DIM 104 SR NiMH 45W 50V | 1hr<br>2 / 3 hrs | 2.0Ah NiMH<br>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 |

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Latest Issue: 2018-06-11

Effective Date: 2018-06-11

Expiry Date: 2021-02-05

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# 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<br>2 Hrs<br>3 Hrs | 2 Cells 2Ah NiMh<br>3 Cells 2Ah NiMh<br>3 Cells 2Ah NiMh |
| 89899865    | EMpowerLED 1W BASIC    | 1 Hr<br>2 Hrs<br>3 Hrs | 2 Cells 2Ah NiMh<br>3 Cells 2Ah NiMh<br>3 Cells 2Ah NiMh |
| 89899867    | EMpowerLED 1W ST       | 1 Hr<br>2 Hrs<br>3 Hrs | 2 Cells 2Ah NiMh<br>3 Cells 2Ah NiMh<br>3 Cells 2Ah NiMh |
| 89899860    | EMpowerLED 1W ST       | 1 Hr<br>2 Hrs<br>3 Hrs | 2 Cells 2Ah NiMh<br>3 Cells 2Ah NiMh<br>3 Cells 2Ah NiMh |
| 89800031    | EMpowerLED 1W PRO EZ-3 | 1 Hr<br>2 Hrs<br>3 Hrs | 2 Cells 2Ah NiMh<br>3 Cells 2Ah NiMh<br>3 Cells 2Ah NiMh |
| 89800029    | EMpowerLED 1W PRO EZ-3 | 1 Hr<br>2 Hrs<br>3 Hrs | 2 Cells 2Ah NiMh<br>3 Cells 2Ah NiMh<br>3 Cells 2Ah NiMh |
| 89899868    | EMpowerLED 2W ST       | 1 Hr<br>2 Hrs<br>3 Hrs | 3 Cells 2Ah NiMh<br>4 Cells 2Ah NiMh<br>5 Cells 2Ah NiMh |
| 89899861    | EMpowerLED 2W ST       | 1 Hr<br>2 Hrs<br>3 Hrs | 3 Cells 2Ah NiMh<br>4 Cells 2Ah NiMh<br>5 Cells 2Ah NiMh |
| 89800032    | EMpowerLED 2W PRO EZ-3 | 1 Hr<br>2 Hrs<br>3 Hrs | 3 Cells 2Ah NiMh<br>4 Cells 2Ah NiMh<br>5 Cells 2Ah NiMh |

First Issued: 1997-03-14

Latest Issue: 2018-06-11

Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 20 of 35

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# 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<br>2 Hrs<br>3 Hrs | 3 Cells 2Ah NiMh<br>4 Cells 2Ah NiMh<br>5 Cells 2Ah NiMh |
| 89899859    | EMpowerLED 2W BASIC    | 1 Hr<br>2 Hrs<br>3 Hrs | 3 Cells 2Ah NiMh<br>4 Cells 2Ah NiMh<br>5 Cells 2Ah NiMh |
| 89899866    | EMpowerLED 2W BASIC    | 1 Hr<br>2 Hrs<br>3 Hrs | 3 Cells 2Ah NiMh<br>4 Cells 2Ah NiMh<br>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 &<br>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 &<br>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: 2018-06-11

Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 21 of 35

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# 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<br>2 Hrs<br>3 Hrs | 5 Cells 1.6Ah NiCD<br>5 Cells 4Ah NiCD<br>5 Cells 4Ah NiCD |
| 89800122    | EMpowerLED 4W BASIC         | 1 Hr<br>2 Hrs<br>3 Hrs | 5 Cells 1.6Ah NiCD<br>5 Cells 4Ah NiCD<br>5 Cells 4Ah NiCD |
| 89800124    | EMpowerLED 4W ST            | 1 Hr<br>2 Hrs<br>3 Hrs | 5 Cells 1.6Ah NiCD<br>5 Cells 4Ah NiCD<br>5 Cells 4Ah NiCD |
| 89800126    | EMpowerLED 4W PRO EZ-3      | 1 Hr<br>2 Hrs<br>3 Hrs | 5 Cells 1.6Ah NiCD<br>5 Cells 4Ah NiCD<br>5 Cells 4Ah NiCD |
| 89800444    | EMpowerLED 4W BASIC NiMH    | 1 Hr<br>2 Hrs<br>3 Hrs | 5 Cells 2Ah NiMh<br>5 Cells 4Ah NiMh<br>5 Cells 4Ah NiMh   |
| 89800445    | EMpowerLED 4W ST NiMH       | 1 Hr<br>2 Hrs<br>3 Hrs | 5 Cells 2Ah NiMh<br>5 Cells 4Ah NiMh<br>5 Cells 4Ah NiMh   |
| 89800446    | EMpowerLED 4W PRO EZ-3 NiMH | 1 Hr<br>2 Hrs<br>3 Hrs | 5 Cells 2Ah NiMh<br>5 Cells 4Ah NiMh<br>5 Cells 4Ah NiMh   |

First Issued: 1997-03-14

Latest Issue: 2018-06-11

Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 22 of 35

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# 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<br>3 Hrs | 3 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh<br>3 Cell 4Ah Ni-Cd/NiMh |
| 89800179    | EMconverterLED BASIC 104 50V       | 1 Hr<br>3 Hrs | 4 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh<br>4 Cell 4Ah Ni-Cd/NiMh |
| 89800187    | EMconverterLED BASIC 104 90V       | 1 Hr<br>3 Hrs | 4 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh<br>4 Cell 4Ah Ni-Cd/NiMh |
| 89800188    | EMconverterLED BASIC 105 90V       | 1 Hr<br>3 Hrs | 5 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh<br>5 Cell 4Ah Ni-Cd/NiMh |
| 89800308    | EMconverterLED BASIC 104 200V      | 1 Hr<br>3 Hrs | 4 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh<br>4 Cell 4Ah Ni-Cd/NiMh |
| 89800309    | EMconverterLED BASIC 105 200V      | 1 Hr<br>3 Hrs | 5 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh<br>5 Cell 4Ah Ni-Cd/NiMh |
| 89800314    | EMconverterLED BASIC 103 NiMH 50V  | 1 Hr<br>3 Hrs | 3 Cell 2.0Ah NiMh<br>3 Cell 4Ah NiMh                     |
| 89800315    | EMconverterLED BASIC 104 NiMH 50V  | 1 Hr<br>3 Hrs | 4 Cell 2.0Ah NiMh<br>4 Cell 4Ah NiMh                     |
| 89800320    | EMconverterLED BASIC 104 NiMH 90V  | 1 Hr<br>3 Hrs | 4 Cell 2.0Ah NiMh<br>4 Cell 4Ah NiMh                     |
| 89800321    | EMconverterLED BASIC 105 NiMH 90V  | 1 Hr<br>3 Hrs | 5 Cell 2.0Ah NiMh<br>5 Cell 4Ah NiMh                     |
| 89800326    | EMconverterLED BASIC 104 NiMH 200V | 1 Hr<br>3 Hrs | 4 Cell 2.0Ah NiMh<br>4 Cell 4Ah NiMh                     |
| 89800327    | EMconverterLED BASIC 105 NiMH 200V | 1 Hr<br>3 Hrs | 5 Cell 2.0Ah NiMh<br>5 Cell 4Ah NiMh                     |
| 89800181    | EM converterLED ST 103 50V         | 1 Hr<br>3 Hrs | 3 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh<br>3 Cell 4Ah Ni-Cd/NiMh |

First Issued: 1997-03-14

Latest Issue: 2018-06-11

Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 23 of 35

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# 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<br>3 Hrs   | 4 Cell 1.6Ah Ni-Cd                                       |
| 89800190    | EM converterLED ST 104 90V       | 1 Hr<br>3 Hrs   | 4 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh<br>4 Cell 4Ah Ni-Cd/NiMh |
| 89800191    | EM converterLED ST 105 90V       | 1 Hr<br>3 Hrs   | 5 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh<br>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<br>3 Hrs   | 4 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh<br>4 Cell 4Ah Ni-Cd/NiMh |
| 89800311    | EM converterLED ST 105 200V      | 1 Hr<br>3 Hrs   | 5 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh<br>5 Cell 4Ah Ni-Cd/NiMh |
| 89800184    | EM converterLED PRO 103 50V      | 1 Hr<br>2/3 Hrs | 3 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh<br>3 Cell 4Ah Ni-Cd/NiMh |
| 89800185    | EM converterLED PRO 104 50V      | 1 Hr<br>2/3 Hrs | 4 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh<br>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<br>2/3 Hrs | 4 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh<br>4 Cell 4Ah Ni-Cd/NiMh |
| 89800194    | EM converterLED PRO 105 90V      | 1 Hr<br>2/3 Hrs | 5 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh<br>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<br>2/3 Hrs | 4 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh<br>4 Cell 4Ah Ni-Cd/NiMh |
| 89800313    | EM converterLED PRO 105 200V     | 1 Hr<br>2/3 Hrs | 5 Cell 1.6Ah Ni-Cd / 2.0Ah NiMh<br>5 Cell 4Ah Ni-Cd/NiMh |

First Issued: 1997-03-14

Latest Issue: 2018-06-11

Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 24 of 35

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# ENEC Certificate

No. ENEC 36210

## Section 4 (continued)

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

First Issued: 1997-03-14

Latest Issue: 2018-06-11

Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 25 of 35

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# 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<br>2 & 3 Hrs | 3 Cell 2Ah NiMh<br>3 Cell 4Ah NiMh |
| 89800549    | EM converterLED PRO 104 50V TX  | 1 Hr<br>2 & 3 Hrs | 4 Cell 2Ah NiMh<br>4 Cell 4Ah NiMh |
| 89800550    | EM converterLED PRO 104 200V TX | 1 Hr<br>2 & 3 Hrs | 4 Cell 2Ah NiMh<br>4 Cell 4Ah NiMh |
| 89800551    | EM converterLED PRO 105 200V TX | 1 Hr<br>2 & 3 Hrs | 5 Cell 2Ah NiMh<br>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<br>Clip fix    | 3Hrs     | 3 Cell 2Ah NiMh<br>3 Cell 1.5/1.6Ah NiCd |
| 89800112    | EMpowerLED NM 1W 3H BASIC<br>Screw fix   | 3Hrs     | 3 Cell 2Ah NiMh<br>3 Cell 1.5/1.6Ah NiCd |
| 89800553    | EMpowerLED BASIC NM 2W NiCd<br>Screw fix | 3Hrs     | 3 Cell 2.5Ah NiCd                        |

First Issued: 1997-03-14

Latest Issue: 2018-06-11

Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 26 of 35

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# ENEC Certificate

No. ENEC 36210

## Section 4 (continued)

BSI Test Report 2413/8787375/1 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 No. | Description        | Duration | Battery            |
|-------------|--------------------|----------|--------------------|
| 89800558    | EMconverterLED     | 1 Hr     | 2 cells 1.6Ah NiCd |
|             | BASIC 202 NiCd 50V | 3 Hrs    | 2 cells 4Ah NiCd   |
| 89800559    | EMconverterLED     | 1 Hr     | 3 cells 1.6Ah NiCd |
|             | BASIC 203 NiCd 50V | 3 Hrs    | 3 cells 4Ah NiCd   |
| 89800560    | EMconverterLED     | 1 Hr     | 4 cells 1.6Ah NiCd |
|             | BASIC 204 NiCd 50V | 3 Hrs    | 4 cells 4Ah NiCd   |
| 89800561    | EMconverterLED     | 1 Hr     | 3 cells 1.6Ah NiCd |
|             | BASIC 203 NiCd 90V | 3 Hrs    | 3 cells 4Ah NiCd   |
| 89800562    | EMconverterLED     | 1 Hr     | 4 cells 1.6Ah NiCd |
|             | BASIC 204 NiCd 90V | 3 Hrs    | 4 cells 4Ah NiCd   |

First Issued: 1997-03-14

Latest Issue: 2018-06-11

Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 27 of 35

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No. ENEC 36210

## Section 4 (continued)

BSI Test Report 2413/8867918/1 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 No. | Description                          | Duration      | Battery  |
|-------------|--------------------------------------|---------------|--|
| 89800574    | EMconverterLED BASIC 203 NiCd / NiMH | 1 Hr<br>3 Hrs | 3 Cells 1.6Ah NiCd / 2.2Ah NiMH<br>3 Cells 4Ah NiCd / 2.2Ah NiMH |
| 89800563    | EMconverterLED BASIC 204 NiCd / NiMH | 1 Hr<br>3 Hrs | 4 Cells 1.6Ah NiCd / 2.2Ah NiMH<br>4 Cells 4Ah NiCd / 2.2Ah NiMH |
| 89800564    | EMconverterLED BASIC 205 NiCd / NiMH | 1 Hr<br>3 Hrs | 4 Cells 1.6Ah NiCd / 2.2Ah NiMH<br>4 Cells 4Ah NiCd / 2.2Ah NiMH |

First Issued: 1997-03-14

Latest Issue: 2018-06-11

Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 28 of 35

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No. ENEC 36210

## Section 4 (continued)

BSI Test Report 2413/8961811/1 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<br>3 Hrs | 1 Cell 1.5Ah LiFePO4<br>2 Cell 2.0Ah NiMH<br>2 Cell 3.0Ah LiFePO4<br>2 Cell 4.0Ah NiMH |
| 89800576       | EMconverterLED BASIC 203 MH/LiFePO4 50V  | 1 Hr<br>3 Hrs | 2 Cell 3.0Ah LiFePO4<br>3 Cell 2.0Ah NiMH<br>4 Cell 6.0Ah LiFePO4<br>3 Cell 4.0Ah NiMH |
| 89800577       | EMconverterLED BASIC 204 MH/LiFePO4 50V  | 1 Hr<br>3 Hrs | 2 Cell 3.0Ah LiFePO4<br>4 Cell 2.0Ah NiMH<br>5 Cell 7.5Ah LiFePO4<br>4 Cell 4.0Ah NiMH |
| 89800578       | EMconverterLED BASIC 203 MH/LiFePO4 90V  | 1 Hr<br>3 Hrs | 2 Cell 3.0Ah LiFePO4<br>3 Cell 2.0Ah NiMH<br>4 Cell 6.0Ah LiFePO4<br>3 Cell 4.0Ah NiMH |
| 89800579       | EMconverterLED BASIC 204 MH/LiFePO4 90V  | 1 Hr<br>3 Hrs | 2 Cell 3.0Ah LiFePO4<br>4 Cell 2.0Ah NiMH<br>5 Cell 7.5Ah LiFePO4<br>4 Cell 4.0Ah NiMH |
| 89800592       | EMconverterLED BASIC 203 MH/LiFePO4 250V | 1 Hr<br>3 Hrs | 2 Cell 3.0Ah LiFePO4<br>3 Cell 2.0Ah NiMH<br>4 Cell 6.0Ah LiFePO4<br>3 Cell 4.0Ah NiMH |
| 89800581       | EMconverterLED BASIC 204 MH/LiFePO4 250V | 1 Hr<br>3 Hrs | 2 Cell 3.0Ah LiFePO4<br>4 Cell 2.0Ah NiMH<br>5 Cell 7.5Ah LiFePO4<br>4 Cell 4.0Ah NiMH |
| 89800582       | EMconverterLED BASIC 205 MH/LiFePO4 250V | 1 Hr<br>3 Hrs | 2 Cell 3.0Ah LiFePO4<br>5 Cell 2.0Ah NiMH<br>6 Cell 9.0Ah LiFePO4<br>5 Cell 4.0Ah NiMH |

First Issued: 1997-03-14

Latest Issue: 2018-06-11

Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 29 of 35

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# 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     | 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 | 89800289 | LCBU 10W 12V BASIC PHASE-CUT SR   |
|           | 89800290 | LCBU 25W 12V BASIC PHASE-CUT SR   |
|           | 89800307 | LCBI 25W 700mA BASIC PHASE-CUT SR |

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Latest Issue: 2018-06-11

Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 30 of 35

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# ENEC Certificate

No. ENEC 36210

## Section 5 (continued)

BSI Test Report 8961902-3 1 of 2 and 2 of 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<br>-5°C to + 50°C Pout > 45W |
| 89800437    | EMpowerLED CPS FX SR 50W 50V | + 80°C | -5°C to + 50°C Pout <= 40W<br>-5°C to + 40°C Pout > 40W |

First Issued: 1997-03-14

Latest Issue: 2018-06-11

Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 31 of 35

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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: 2018-06-11

Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 32 of 35

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# 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                         |

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Page: 33 of 35

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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         |

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Latest Issue: 2018-06-11

Effective Date: 2018-06-11

Expiry Date: 2021-02-05

Page: 34 of 35

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No. ENEC 36210

## Section 5 (continued)

EM Power LED drivers (continued)

| <b>Tridonic Article Number / Description</b> | <b>Zumtobel Article Number / Description</b>            |
|--|---|
| 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       |

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Latest Issue: 2018-06-11

Effective Date: 2018-06-11

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Page: 35 of 35

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