



# HF-Performer III for TL5 lamps

## HF-P 154/155 TL5 HO/PLL III 220-240V IDC

HF-Performer III TL5 is a sustainable, slim and high-frequency electronic ballast for TL5 and TL5 Eco fluorescent lamps. It is ideal for applications where high energy efficiency is required. The HF-Performer III range has a robust design, meets all relevant international safety and performance standards and is energy-efficient (CELMA EEI A2 BAT).

### Product data

| General Information                            |                  |
|--|------------------|
| Application code                               | III              |
| Type version                                   | IDC              |
| Lamp type                                      | TL5/PL-L         |
| Number of lamps                                | 1 piece/unit     |
| Number of products on MCB (16 A type B) (nom.) | 28               |
| Automatic restart                              | Yes              |
| Operating and Electrical                       |                  |
| Input Voltage                                  | 220 to 240 V     |
| Input frequency                                | 50 to 60 Hz      |
| Operating frequency (nom.)                     | 45 kHz           |
| Ignition method                                | Programmed Start |
| Crest factor (max.)                            | 1.7              |
| Power factor 100% load (nom.)                  | 0.99             |
| Ignition time (max.)                           | 0.9 s            |
| Mains voltage performance (AC)                 | -8%+6%           |
| Mains voltage safety (AC)                      | -10%+10%         |
| Earth leakage current (nom.)                   | 0.5 mA           |

| Inrush current width                      | 0.25 ms  |
|---|--|
| Constant wattage deviation                | -2%/+2%  |
| Ballast factor (nom.)                     | 1  |
| Power losses (nom.)                       | 4.5 W  |
| Inrush current peak (max.)                | 24 A   |
| Wiring                                    |  |
| Connector type input terminals            | WAGO 251 universal connector [ Suitable for both automatic wiring (ALF and ADS) and manual wiring] |
| Cable capacity output wires mutual (nom.) | 200 pF   |
| Connector type output terminals           | WAGO 251 universal connector [ Suitable for both automatic wiring (ALF and ADS) and manual wiring] |
| Cable length hot-wiring                   | 0.75 m   |
| Wire strip length                         | 8.0-9.0 mm   |
| Dual fixture master/slave                 | Not applicable [ Master/Slave oper. not applicable]  |
| Input terminal cross section              | 0.50-1.00 mm <sup>2</sup>  |
| Output terminal cross section             | 0.50-1.00 mm <sup>2</sup>  |

## HF-Performer III for TL5 lamps

|   |        |
|---|--------|
| Cable capacity output wires to earth (nom.) | 200 pF |
|---|--------|

### System characteristics

|                             |                           |
|-----------------------------|---------------------------|
| Rated ballast-lamp power    | 54/55 W                   |
| Rated lamp power on PL-L    | 54/55 W                   |
| System power on PL-L        | 56W@55 W                  |
| Lamp power on PL-L          | 51.5W@55 W                |
| Power loss on PL-L          | 4.5W@55 W                 |
| Rated lamp power on TL5     | 54/55 W                   |
| System power on TL5         | 57.5 W@54W; 55.5W@50 W; W |
| Lamp power on TL5           | 53 W@54 W                 |
| Power loss on TL5           | 4.5 W@54 W                |
| Rated lamp power on TL5 ECO | 50 W                      |
| System power on TL5 ECO     | 54.5 W                    |
| Lamp Power on TL5 ECO       | 51W@50 W                  |
| Power loss on TL5 ECO       | 4.5 W@50 W                |

### Temperature

|                        |        |
|------------------------|--------|
| T-ambient (max.)       | 60 °C  |
| T-ambient (min.)       | -25 °C |
| T storage (max.)       | 80 °C  |
| T storage (min.)       | -40 °C |
| T-case lifetime (nom.) | 80 °C  |
| T-Case maximum (max.)  | 80 °C  |
| T-Ignition (max.)      | 60 °C  |
| T-Ignition (min.)      | -25 °C |

### Mechanical and Housing

|         |            |
|---------|------------|
| Housing | L360x30x22 |
|---------|------------|

### Emergency Operation

|                                       |              |
|---------------------------------------|--------------|
| Nominal light output after 60 seconds | 100% of EBLF |
| Battery voltage lamp ignition         | 198-254 V    |
| Normal operating voltage (DC)         | 220-240 V    |
| Battery voltage lamp operation        | 176-254      |
| Battery voltage guaranteed operation  | 176-275 V    |
| Battery voltage guaranteed ignition   | 186-275 V    |

|  |       |
|--|-------|
| Emergency ballast lumen factor (EBLF) (nom.) | 100 % |
|--|-------|

|                                      |             |
|--------------------------------------|-------------|
| Nominal light output after 5 seconds | 50% of EBLF |
|--------------------------------------|-------------|

### Approval and Application

|                                    |   |
|------------------------------------|---|
| Energy efficiency index            | A2 BAT  |
| IP classification                  | IP 20 [ Ingress Protection 20]                  |
| EMI 9 kHz ... 30 MHz               | EN 55015 edition 7.1                            |
| EMI 30 MHz ... 1,000 MHz           | -   |
| Safety standard                    | IEC 61347-2-3                                   |
| Performance standard               | IEC 60929                                       |
| Quality standard                   | ISO 9000:2000                                   |
| Environmental standard             | ISO 14001                                       |
| Harmonic current emission standard | IEC 61000-3-2                                   |
| EMC immunity standard              | IEC 61547                                       |
| Vibration standard                 | IEC68-2-6 F c                                   |
| Bumps standard                     | IEC 68-2-29 Eb                                  |
| Humidity standard                  | EN 61347-2-3 clause 11                          |
| Approval marks                     | CE marking ENEC certificate VDE-EMV certificate |
| Temperature marking                | Yes   |
| Emergency standard                 | IEC 60598-2-22                                  |
| Humming and noise level            | < 30 dB(A)                                      |

### Product Data

|                                   |  |
|-----------------------------------|--|
| Full product code                 | 872790086348200                          |
| Order product name                | HF-P 154/155 TL5 HO/PLL III 220-240V IDC |
| EAN/UPC – product                 | 8711500998217                            |
| Order code                        | 913713028266                             |
| SAP numerator – quantity per pack | 1  |
| Numerator – packs per outer box   | 12                                       |
| Material no. (12 NC)              | 913713028266                             |
| SAP net weight (piece)            | 0.252 kg                                 |

## Dimensional drawing

A2

| Product                                  | D1     | C1      | A1       | A2       | B1      |
|--|--------|---------|----------|----------|---------|
| HF-P 154/155 TL5 HO/PLL III 220-240V IDC | 4.2 mm | 22.0 mm | 360.0 mm | 350.0 mm | 30.0 mm |

HF-P 154/155 TL5 HO/PL-L III IDC

## HF-Performer III for TL5 lamps

