



# HF-Performer III for TL-D lamps

## HF-P 258 TL-D III 220-240V 50/60Hz IDC

HF-Performer III TLD is a sustainable, slim and high-frequency electronic ballast for TL-D 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).

### Product data

| General Information                            |                  |
|--|------------------|
| Application code                               | III              |
| Type version                                   | IDC              |
| Lamp type                                      | TL-D/PL-L        |
| Number of lamps                                | 2 piece/unit     |
| Number of products on MCB (16 A type B) (nom.) | 12               |
| 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                      | 0.35 ms  |
|---|--|
| Constant wattage deviation                | -2%/+2%  |
| Ballast factor (nom.)                     | 0.95   |
| Power factor (nom.)                       | 0.99   |
| Power losses (nom.)                       | 5.5-6.1 W  |
| Inrush current peak (max.)                | 28 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>  |

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|   |                           |
|---|---------------------------|
| Output terminal cross section               | 0.50-1.00 mm <sup>2</sup> |
| Cable capacity output wires to earth (nom.) | 200 pF                    |

### System characteristics

|                          |                          |
|--------------------------|--------------------------|
| Rated ballast-lamp power | 58 W                     |
| Rated lamp power on TL-D | 58 W                     |
| System power on TL-D     | 112.8W@58 W; 116.6W@70 W |
| Lamp power on TL-D       | 107.2W@58 W; 110.5W@70 W |
| Power loss on TL-D       | 5.5W@58 W; 6.1W@70 W     |
| System power on PL-L     | 112.7W@55 W              |
| Lamp power on PL-L       | 106.7W@55 W              |
| Power loss on PL-L       | 6W@55 W                  |

### Temperature

|                        |        |
|------------------------|--------|
| T-ambient (max.)       | 60 °C  |
| T-ambient (min.)       | -25 °C |
| T storage (max.)       | 50 °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 | L 280x30x28 |
|---------|-------------|

### Emergency Operation

|  |              |
|--|--------------|
| Nominal light output after 60 seconds        | 100% of EBLF |
| Battery voltage lamp ignition                | 186-275 V    |
| Normal operating voltage (DC)                | 220-240 V    |
| Battery voltage lamp operation               | 186-275      |
| 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               | EN55015   |
| EMI 30 MHz ... 1,000 MHz           | EN55022 level B                                 |
| 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                   | 872790091172500                        |
| Order product name                  | HF-P 258 TL-D III 220-240V 50/60Hz IDC |
| EAN/UPC – product                   | 8711500999726                          |
| Order code                          | 91172500                               |
| Local code                          | HFP258TLDIII                           |
| Numerator – quantity per pack       | 1                                      |
| SAP numerator – packs per outer box | 12                                     |
| Material no. (12 NC)                | 913713031966                           |
| SAP net weight (piece)              | 0.231 kg                               |

## Dimensional drawing

A2

| Product                                | D1     | C1      | A1       | A2       | B1      |
|--|--------|---------|----------|----------|---------|
| HF-P 258 TL-D III 220-240V 50/60Hz IDC | 4.2 mm | 28.0 mm | 280.0 mm | 265.0 mm | 30.0 mm |

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