



# HF-Performer III for TL-D lamps

## HF-P 118/136 TL-D III 220-240V 50/60 Hz

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
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	50-60 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.)	2.5-4.1 W
Inrush current peak (max.)	18 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	36/18 W
Rated lamp power on TL-D	36/18 W
System power on TL-D	35.2/19.1 W
Lamp power on TL-D	31.1/16.6 W
Power loss on TL-D	4.1/2.5 W
Rated lamp power on PL-L	36 W
System power on PL-L	34.6 W
Lamp power on PL-L	30.7 W
Power loss on PL-L	3.9 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

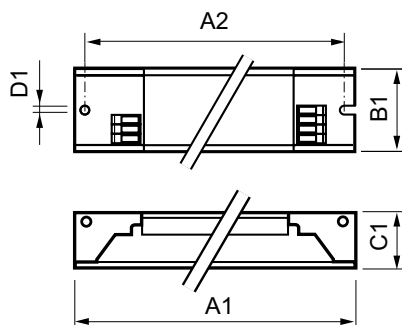
### Mechanical and Housing

Housing	L 280x30x28
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### 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

## Dimensional drawing



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Emergency ballast lumen factor (EBLF) (nom.)	0.7 %
Nominal light output after 5 seconds	50% of EBLF

### Approval and Application

Energy efficiency index	A2 BAT
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	872790091164000
Order product name	HF-P 118/136 TL-D III 220-240V 50/60 Hz
EAN/UPC – product	8711500999641
Order code	91164000
Local Code	HFP136TLDIII
Numerator – quantity per pack	1
Numerator – packs per outer box	12
Material no. (12NC)	913713031566
Net weight (piece)	0.202 kg

Product	D1	C1	A1	A2	B1
HF-P 118/136 TL-D III 220-240V 50/60 Hz	4.2 mm	28.0 mm	280.0 mm	265.0 mm	30.0 mm

## HF-Performer III for TL-D lamps

### Photometric data

Ballast type	Lamp type	Lamp power		T <sub>a</sub> = 40°C	T <sub>a</sub> = 50°C	T <sub>a</sub> = 60°C	T <sub>a</sub> = 70°C
HF-P 136 TL-D III 220-240V 50/60Hz	TL-D General	36W	T <sub>c</sub>	=55°C	=65°C	=73°C	X
			Lifetime	100,000 Hrs	100,000 Hrs	80,000 Hrs	X

