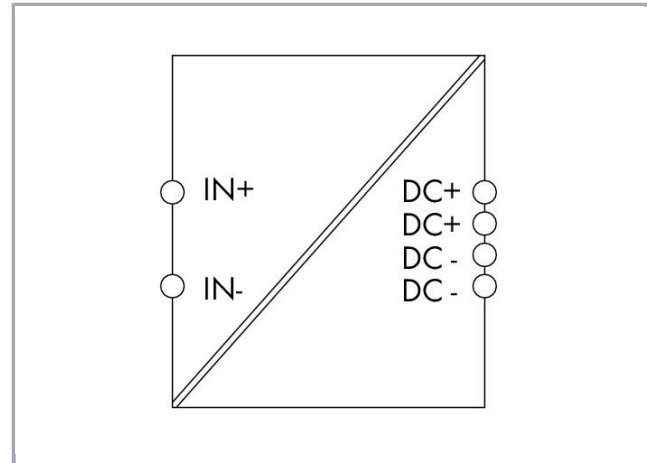


Data sheet | Item number: 787-1650

DC/DC Converter; 24 VDC input voltage; 12 VDC output voltage; 4 A output current; galvanically isolated



[www.wago.com/787-1650](http://www.wago.com/787-1650)



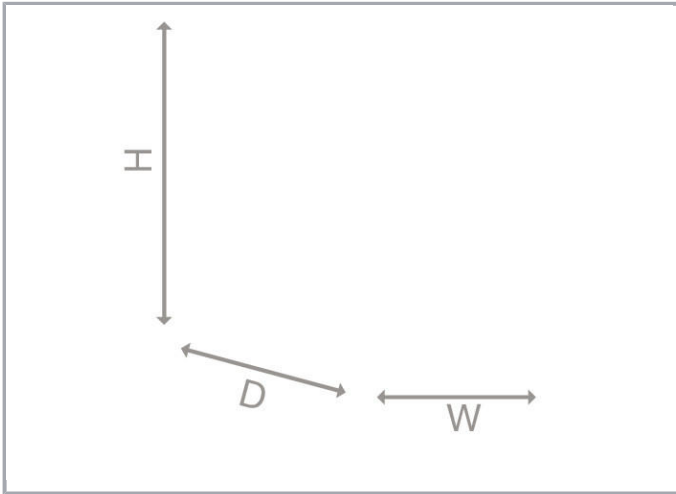
RoHS  Compliant

[BOMcheck.net](https://www.bomcheck.net)

Subject to changes. Please also observe the further product documentation!

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Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



## Item description

### Features:

- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60950-1
- Control deviation:  $\pm 1\%$

## Data

### Technical Data

#### Input

Nominal input voltage $U_{i\text{ nom}}$	DC 24 V
Input voltage range	DC 18 ... 60 V
Nominal mains frequency range	0 Hz
Input current $I_i$	$\leq 2,56\text{ A (24 VDC)}$ ; $\leq 0,96\text{ A (60 VDC)}$ ; $\leq 3,39\text{ A (18 VDC)}$
Discharge current	$\leq 0,25\text{ mA}$
Inrush current	$\leq 60\text{ A (NTC)}$
Mains failure hold-up time	$\geq 5\text{ ms (24 VDC)}$

#### Output

Nominal output voltage $U_{o\text{ nom}}$	DC 12 V (SELV)
Output voltage range	DC 11,5 ... 14,5 V (adjustable)

Subject to changes. Please also observe the further product documentation!



Factory preset	DC 12 V
Nominal output current $I_{o\ nom}$	4 A
Nominal output power	48 W
Adjustment accuracy	$\leq 1\ %$
Residual ripple	$\leq 50\ mV$ (peak-to-peak)
Current limitation	$1.1 \times I_{o\ nom}$ (typ.)
Overload behavior	Constant current

### Signaling and communication

Signaling	1 x Status indication LED (green)
Operation status indicator	Green LED ( $U_o$ )

### Efficiency/Power losses:

Power loss $P_l$	$\leq 1\ W$ (no load)
Max. power loss $P_{v\ max}$	11,4 W (24 VDC / 3 A)
Efficiency (typ.)	84 %

### Fuse protection:

Internal fuse	T 4 A / 250 VDC
External fuse (recommended)	T 6.3 A

### Safety and protection:

Insulation voltage (PRI-SEC)	DC 2,2 kV
Protection class	III
Protection class	IP20 (per EN 60529)
Feedback voltage	$\leq DC\ 25\ V$
Overvoltage category	II
Transient protection, primary	Varistor
Overvoltage protection, secondary	Internal protective circuit $\leq 35\ VDC$ (in the event of a fault)
Short circuit protection	Yes
No-load proof	Yes
Parallel operation	Yes
Series connection	Yes
MTBF	$> 500,000\ h$ (per IEC 61709)

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## Connection data

Connection type (1)	Eingang/Ausgang/Signalisierung
Connection technology	CAGE CLAMP®
WAGO terminal	WAGO 721 Series
Solid conductor	0,08 ... 2,5 mm <sup>2</sup> / 28 ... 12 AWG
Fine-stranded conductor	0,08 ... 2,5 mm <sup>2</sup> / 28 ... 12 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inch

## Geometrical Data

Width	45 mm / 1.772 inch
Height	90 mm / 3.543 inch
Length from upper-edge of DIN-35 rail	107,5 mm / 4.232 inch

## Mechanical data

Type of mounting	DIN-35 rail (EN 60715)
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## Material Data

Flammability class per UL94	V0
Weight	240 g

## Environmental Requirements

Surrounding air (operating) temperature	-25 ... 70 °C
Surrounding air (storage) temperature	-25 ... 85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	-2 %/K (> 55 °C)
Pollution degree	2
Climatic category	3K3 (per EN 60721)

## Standards and specifications

Conformity marking	CE
Standards/specifications	EN 60950-1; EN 61204-3; EN 61558-2-16

## Commercial data

Packaging type	BOX
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Country of origin	DE
GTIN	4055143737593
Customs Tariff No.	85043180888

## Counterpart

## Compatible products

### tools



Item no.: 210-769  
SCREWDRIVER; green

[www.wago.com/210-769](http://www.wago.com/210-769)

## Downloads

### Documentation

#### Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
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## Installation Notes

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