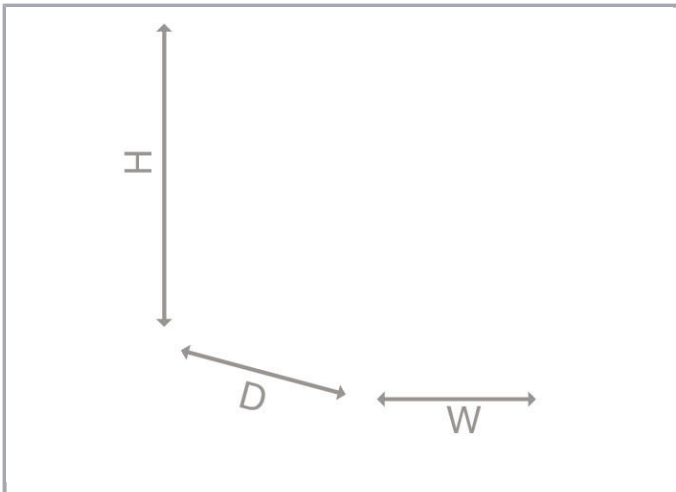
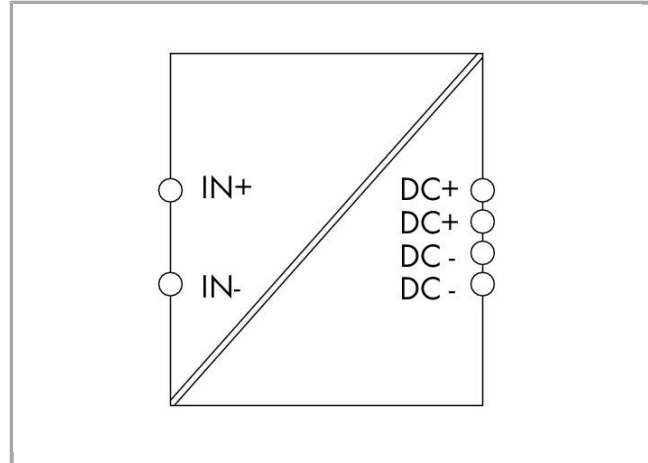
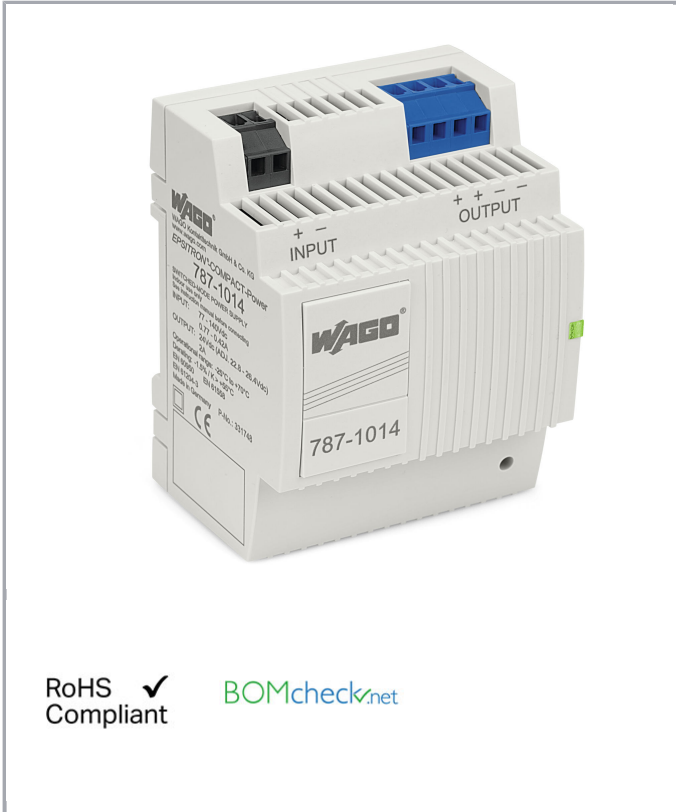


**Data sheet | Item number: 787-1014**

DC/DC Converter; EPSITRON® COMPACT Power; 110 VDC input voltage; 24 VDC output voltage; 2 A output current



[www.wago.com/787-1014](http://www.wago.com/787-1014)



**Item description**

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

WAGO Kontakttechnik GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

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

**Features:**

- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards/boxes
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1
- Control deviation:  $\pm 1\%$  ( $\pm 10\%$  within the application range of EN 50121-3-2)
- Suitable for railway applications

**Data****Technical Data****Input**

Nominal input voltage $U_{i\text{ nom}}$	DC 110 V
Input voltage range	DC 77 ... 140 V
Nominal mains frequency range	0 Hz
Input current $I_i$	$\leq 0,77\text{ A}$ (77 VDC); $\leq 0,42\text{ A}$ (140 VDC)
Discharge current	$\leq 1\text{ mA}$
Inrush current	$\leq 30\text{ A}$ (NTC)
Mains failure hold-up time	$\geq 8\text{ ms}$ (77 VDC); $\geq 25\text{ ms}$ (140 VDC)

**Output**

Nominal output voltage $U_{o\text{ nom}}$	DC 24 V (SELV)
Factory preset	DC 24 V
Nominal output current $I_{o\text{ nom}}$	2 A (24 VDC); 1,6 A (in any mounting position)
Nominal output power	48 W
Adjustment accuracy	$\leq 1\%$
Residual ripple	$\leq 100\text{ mV}$ (peak-to-peak)
Current limitation	$1.1 \times I_{o\text{ nom}}$ (typ.)
Overload behavior	Constant current

**Signaling and communication**

Signaling	1 x Status indication LED (green)
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Subject to changes. Please also observe the further product documentation!



Operation status indicator	Green LED (U <sub>o</sub> )
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### Efficiency/Power losses:

Power loss P <sub>l</sub>	≤ 1,9 W (110 VDC; No load); ≤ 9,9 W (110 VDC; Nominal load)
Max. power loss P <sub>v max.</sub>	9,9 W (77 VDC / 24 VDC; 2 A)
Efficiency (typ.)	85 %

### Fuse protection:

Internal fuse	T 4 A / 125 VDC
External fuse (recommended)	Circuit breaker: 6 A, 10 A; Tripping characteristic: B or C

### Safety and protection:

Insulation voltage (PRI-SEC)	DC 4,242 kV
Protection class	II
Protection class	IP20 (per EN 60529)
Feedback voltage	≤ DC 35 V
Overvoltage category	II
Transient protection, primary	Varistor
Overvoltage protection, secondary	Internal protective circuit ≤ 40 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)

### Connection data

Connection type (1)	Input/Output
Connection technology	CAGE CLAMP®
WAGO terminal	WAGO 740 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	6 ... 7 mm / 0.24 ... 0.28 inch

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## Geometrical Data

Width	72 mm / 2.835 inch
Height	89 mm / 3.504 inch
Depth	59 mm / 2.323 inch
Length from upper-edge of DIN-35 rail	55 mm / 2.165 inch

## Mechanical data

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

Flammability class per UL94	V0
Weight	250 g

## Environmental Requirements

Surrounding air (operating) temperature	-40 ... 70 °C
Surrounding air (storage) temperature	-40 ... 85 °C
Relative humidity	5 ... 96 % (coated PCB)
Derating	-1.5 %/K (> 55 °C)
Pollution degree	2
Climatic category	3K3 (per EN 60721)
Shock and vibration resistance	Category 1, Class B (per EN 61373:2010)

## Standards and specifications

Conformity marking	CE
Standards/specifications	EN 60950; EN 61204-3; EN 50121-3-2; EN 50125*; UL 60950*; UL 508*; DNV GL* (*pending)

## Commercial data

Product Group	6 (Interface Electronics)
Packaging type	BOX
Country of origin	DE
GTIN	4050821819714
Customs Tariff No.	85044082900

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

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## Counterpart

## Compatible products


## Marking accessories

<b>Item no.: 210-831</b> Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white	<a href="http://www.wago.com/210-831">www.wago.com/210-831</a>
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<b>Item no.: 210-832</b> Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white	<a href="http://www.wago.com/210-832">www.wago.com/210-832</a>
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## ferrule


<b>Item no.: 216-201</b> Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; white	<a href="http://www.wago.com/216-201">www.wago.com/216-201</a>
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 <b>Item no.: 216-202</b> Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray	<a href="http://www.wago.com/216-202">www.wago.com/216-202</a>
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<b>Item no.: 216-203</b> Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; red	<a href="http://www.wago.com/216-203">www.wago.com/216-203</a>
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<b>Item no.: 216-221</b> Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; white	<a href="http://www.wago.com/216-221">www.wago.com/216-221</a>
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 <b>Item no.: 216-222</b> Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray	<a href="http://www.wago.com/216-222">www.wago.com/216-222</a>
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 <b>Item no.: 216-223</b> Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; red	<a href="http://www.wago.com/216-223">www.wago.com/216-223</a>
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<b>Item no.: 216-241</b> Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white	<a href="http://www.wago.com/216-241">www.wago.com/216-241</a>
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 <b>Item no.: 216-242</b> Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	<a href="http://www.wago.com/216-242">www.wago.com/216-242</a>
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<b>Item no.: 216-243</b> Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	<a href="http://www.wago.com/216-243">www.wago.com/216-243</a>
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<b>Item no.: 216-262</b> Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	<a href="http://www.wago.com/216-262">www.wago.com/216-262</a>
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<b>Item no.: 216-263</b> Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	<a href="http://www.wago.com/216-263">www.wago.com/216-263</a>
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<b>Item no.: 216-301</b> Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow	<a href="http://www.wago.com/216-301">www.wago.com/216-301</a>
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Subject to changes. Please also observe the further product documentation!

	<b>Item no.: 216-302</b> Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; green	<a href="http://www.wago.com/216-302">www.wago.com/216-302</a>
	<b>Item no.: 216-321</b> Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow	<a href="http://www.wago.com/216-321">www.wago.com/216-321</a>
	<b>Item no.: 216-322</b> Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; green	<a href="http://www.wago.com/216-322">www.wago.com/216-322</a>
<b>tools</b>		
	<b>Item no.: 210-720</b> Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft	<a href="http://www.wago.com/210-720">www.wago.com/210-720</a>

## Downloads

### Documentation

#### Instruction Leaflet

Primär getaktete Stromversorgungen EPSITRON COMPACT Power DC 110 V / DC 24 V, 2 A	pdf 170.4 kB	Download
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#### Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
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## CAD/CAE-Data

### CAD data

2D/3D Models 787-1014	URL	Download
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### CAE data

EPLAN Data Portal 787-1014	URL	Download
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WSCAD Universe 787-1014	URL	Download
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## Installation Notes

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