

**Data sheet | Item number: 787-2803**

DC/DC Converter; 48 VDC input voltage; 24 VDC output voltage; 0.5 A output current; DC OK contact

[www.wago.com/787-2803](http://www.wago.com/787-2803)



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

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## Item description

### Features:

- DC/DC converter in a compact 6 mm housing
- DC/DC converters (787-28xx) supply devices with 5, 10, 12 or 24 VDC from a 24 or 48 VDC power supply with an output power up to 12 W.
- Output voltage monitoring via DC OK signal output
- Can be commoned with 857 and 2857 Series devices
- Comprehensive range of approvals for multiple applications

## Data

### Technical data

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## Input

Nominal input voltage $U_{i\text{ nom}}$	DC 48 V
Input voltage range	DC 40 ... 55 V
Nominal mains frequency range	0 Hz
Input current $I_i$	$\leq 0.34$ A
Inrush current	$\leq 0.5$ A (at nominal input voltage)

## Output

Nominal output voltage $U_{o\text{ nom}}$	DC 24 V
Output voltage range	$\pm 3$ %
Nominal output current $I_{o\text{ nom}}$	0.5 A
Nominal output power	12 W
Deviation	$\leq 3$ %
Residual ripple	$\leq 20$ mV (peak-to-peak)

## Signaling and Communication

Signaling	1 x LED DC OK (green) 1 x Short circuit LED (red) 1 x Active signal output ( $U_i$ , max. 4 mA)
Operation status indicator	Green LED ( $U_o$ ) Red LED (short circuit)

## Efficiency/power losses

Power loss $P_l$	$\leq 0.29$ W; $\leq 1.2$ W (nominal load)
Efficiency (typ.)	91 % (at nominal input voltage and nominal output)

## Circuit protection

Internal fuse	No
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## Safety and protection

Protection class	III
Protection type	IP20; per EN 60529
Reverse voltage protection	yes
Pollution degree	2

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Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	No
Series operation	No
MTBF	> 1,800,000 h

### Connection data

Number of jumper slots	8
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 857 Series
Solid conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG
Fine-stranded conductor	0.34 ... 2.5 mm <sup>2</sup> / 22 ... 14 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 inches

### Physical data

Width	6 mm / 0.236 inches
Height	94 mm / 3.701 inches
Depth from upper-edge of DIN-rail	97.8 mm / 3.85 inches

### Mechanical Data

Mounting type	DIN-35 rail
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### Material Data

Fire load	0.418 MJ
Weight	32.6 g

### Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	95% (no condensation permissible)
Derating	No derating
Climatic category	3K3 (per EN 60721; except for low air pressure)

### Standards and specifications

Conformity marking	CE
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Standards/specifications	EN 61000-6-2 EN 61000-6-3 EN 60950-1 UL 61010-2-201
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## Commercial data

eCl@ss 10.0	27-04-07-01
eCl@ss 9.0	27-04-07-01
ETIM 8.0	EC002540
ETIM 7.0	EC002540
Recupel Type	
PU (SPU)	1 pcs
Packaging type	bag
Country of origin	DE
GTIN	4055143454308
Customs tariff number	85044083900

## Environmental Product Compliance

CAS-No.	11120-22-2 1303-86-2 1317-36-8 7439-92-1
REACH Candidate List Substance	Diboron trioxide Lead Lead monoxide Lead silicate
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	7fdcf80a-ea1c-4e61-a086-69d74a43c211
SCIP notification number (Belgium)	f9095a37-9cf1-4881-9c24-d8981a5029e9
SCIP notification number (Bulgaria)	0456d0eb-12ea-403f-a27c-2f5403f99bde
SCIP notification number (Czech Republic)	26725077-3d5b-4a47-bbd2-845664152dab
SCIP notification number (Denmark)	c02510db-753e-46ae-b0ec-cf8499a07c41
SCIP notification number (Finland)	e2ce865d-a1f2-498a-b88d-2b47a5805513
SCIP notification number (France)	4262cfff-b19e-40f6-9af3-5f977fc9a019
SCIP notification number (Germany)	f913db78-e89b-4c3a-b5c7-9fd73456200f
SCIP notification number (Hungary)	808d3960-104d-46be-a1a6-4b855d92b7e2

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SCIP notification number (Italy)	147979e2-e7d4-4102-a8d8-bde6fea6bd37
SCIP notification number (Netherlands)	b73eb116-cdbd-4e20-bb6a-b7c828efd196
SCIP notification number (Poland)	907dec48-bed8-4b54-8f64-c5803f000017
SCIP notification number (Romania)	f3a79f75-93b8-45c9-92d9-c97b39c51c68
SCIP notification number (Sweden)	dd526566-1e3c-494a-a3a7-c71e331c938c

## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>EAC</b> Brjansker Zertifizierungsstelle	TP TC 020/2011	EAC_Certificate_RU_C-DE.AM02.B.00115_19
	<b>UL</b> Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 61010-2-201	E175199 Vol3 Sec1

### Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	<b>EU-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-

## Optional accessories

### Tool

Operating tool		
<b>Item no.: 210-720</b> Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured		<a href="http://www.wago.com/210-720">www.wago.com/210-720</a>

### Marking accessories

Marking strip		
<b>Item no.: 2009-110</b> Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white		<a href="http://www.wago.com/2009-110">www.wago.com/2009-110</a>
Marker		
<b>Item no.: 2009-115</b> WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white		<a href="http://www.wago.com/2009-115">www.wago.com/2009-115</a>
<b>Item no.: 793-501</b> WMB marking card; as card; not stretchable; plain; snap-on type; white		<a href="http://www.wago.com/793-501">www.wago.com/793-501</a>
<b>Item no.: 793-502</b> WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white		<a href="http://www.wago.com/793-502">www.wago.com/793-502</a>
<b>Item no.: 793-503</b> WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type;		<a href="http://www.wago.com/793-503">www.wago.com/793-503</a>

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white

**Item no.: 793-504**WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; [www.wago.com/793-504](http://www.wago.com/793-504)  
white**Item no.: 793-505**WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; [www.wago.com/793-505](http://www.wago.com/793-505)  
white**Item no.: 793-506**WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; [www.wago.com/793-506](http://www.wago.com/793-506)  
white**Item no.: 793-566**WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; [www.wago.com/793-566](http://www.wago.com/793-566)  
white**Item no.: 793-5501**WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white; [www.wago.com/793-5501](http://www.wago.com/793-5501)**Downloads****Documentation****Bid Text**

787-2803 X81 - Datei	2019 年12月6日	xml 6.3 kB	Download
787-2803 docx - Datei	2019 年6月24日	docx 20.4 kB	Download
787-2803 pdf - Datei	2019 年6月24日	pdf 92.0 kB	Download

**Instruction Leaflet**

DC/DC-Wandler	V 1.1.1 2020 年3月31日	pdf 2.4 MB	Download
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**Additional Information**

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 年8月18日	pdf 2.2 MB	Download
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**CAD/CAE-Data****CAD data**

## 2D/3D Models 787-2803

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#### CAE data

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#### Compliance Search

Environmental Product Compliance 787-2803

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DC OK contact

### Installation Notes

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