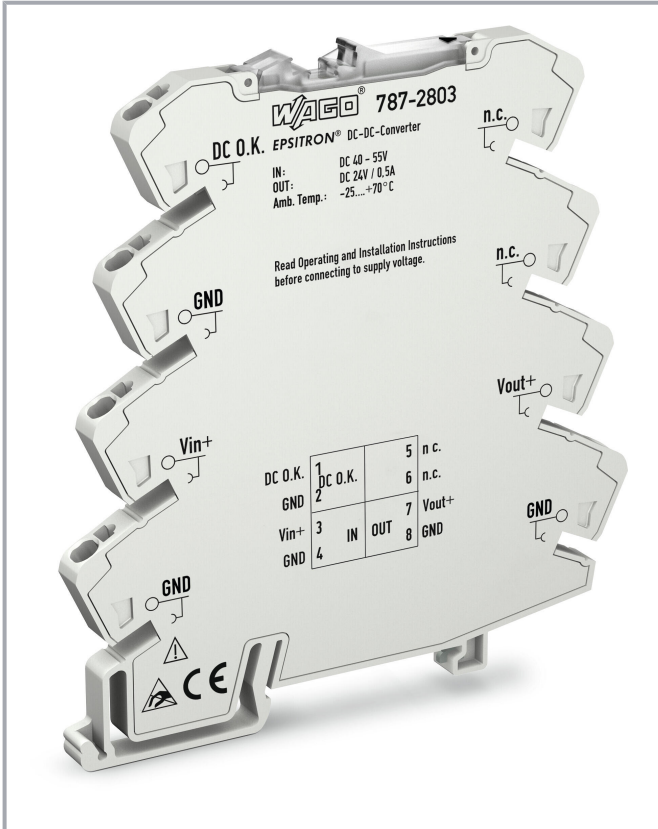


Data sheet | Item number: 787-2803

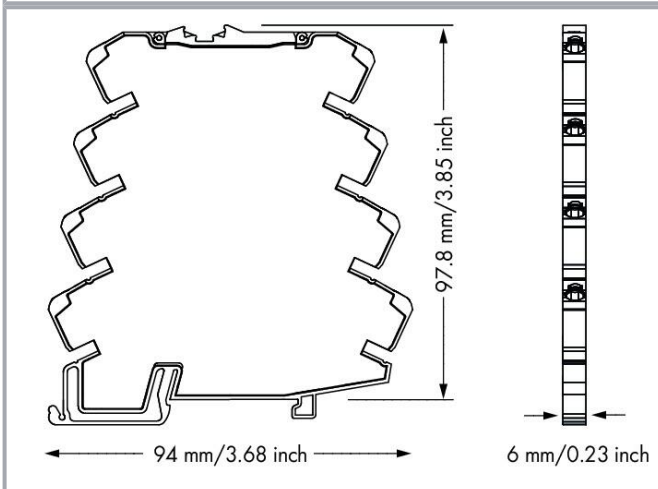
DC/DC Converter; 48 VDC input voltage; 24 VDC output voltage; 0.5 A output current; DC OK contact



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



DC O.K.	1		5	n.c.
GND	2		6	n.c.
Vin+	3	IN	7	Vout+
GND	4	OUT	8	GND



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:

- 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

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



Efficiency (typ.)	91 % (at nominal input voltage and nominal output)
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### 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
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

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



## Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	95% (no condensation permissible)
Derating	No derating

## Standards and specifications

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

## 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
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)	c06db537-0a5a-4220-8f2b-6f34eb4706e8

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SCIP notification number (Belgium)	77620286-9aeb-4063-bfa6-b38879d6ffe4
SCIP notification number (Bulgaria)	506c13f5-9391-4958-838f-5f0590dd1624
SCIP notification number (Czech Republic)	697a1d03-e058-4eef-820b-195017d6db4a
SCIP notification number (Denmark)	bbb01115-d42e-455a-8cba-988b00df85e7
SCIP notification number (Finland)	3ee1e817-0598-48d7-8ecd-385e4fd11fb2
SCIP notification number (France)	1628bb87-2a72-4b21-9f69-a5f68107ff06
SCIP notification number (Germany)	f913db78-e89b-4c3a-b5c7-9fd73456200f
SCIP notification number (Hungary)	abe94f88-eed3-442d-97e8-0b89f20bf97e
SCIP notification number (Italy)	bbd4d650-347e-4ae6-a63c-785f72b346a3
SCIP notification number (Netherlands)	52af1220-96e8-4853-8e39-017689eaabbb
SCIP notification number (Poland)	5a040602-33c3-41c9-9967-40320ba5f067
SCIP notification number (Romania)	3676d4b4-25c1-4d88-845c-a3079105cf7c
SCIP notification number (Sweden)	84380937-9397-4467-bc46-0d54e3c6a3ed

## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	EAC Brjansker Zertifizierungsstelle	TP TC 020/2011	EAC_Certificate_RU_C-DE.AM02.B.00115_19
	UL 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
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-










## Optional accessories

### Marking accessories

Marking strip	Item no.: 2009-110 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>
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## 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; white	<a href="http://www.wago.com/793-503">www.wago.com/793-503</a>
	<b>Item no.: 793-504</b> WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white	<a href="http://www.wago.com/793-504">www.wago.com/793-504</a>
	<b>Item no.: 793-505</b> WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; white	<a href="http://www.wago.com/793-505">www.wago.com/793-505</a>
	<b>Item no.: 793-506</b> WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white	<a href="http://www.wago.com/793-506">www.wago.com/793-506</a>
	<b>Item no.: 793-566</b> WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; white	<a href="http://www.wago.com/793-566">www.wago.com/793-566</a>
	<b>Item no.: 793-5501</b> WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white	<a href="http://www.wago.com/793-5501">www.wago.com/793-5501</a>

## 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>
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## Downloads

## Documentation

## Bid Text

787-2803 X81 - Datei	2019 Dec 6	xml 6.3 kB	Download
787-2803 docx - Datei	2019 Jun 24	docx 20.4 kB	Download

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787-2803 pdf - Datei	2019 Jun 24	pdf 92.0 kB	Download
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#### Instruction Leaflet

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DC/DC-Wandler	V 1.1.1 2020 Mar 31	pdf 2.4 MB	Download
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#### Additional Information

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Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 Aug 18	pdf 2.2 MB	Download
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#### CAD/CAE-Data

##### CAD data

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2D/3D Models 787-2803		URL	Download
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##### CAE data

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EPLAN Data Portal 787-2803		URL	Download
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WSCAD Universe 787-2803		URL	Download
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ZUKEN Portal 787-2803		URL	Download
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#### Environmental Product Compliance

##### Compliance Search

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Environmental Product Compliance 787-2803 DC/DC Converter; 48 VDC input voltage; 24 VDC output voltage; 0.5 A output current; DC OK contact		URL	Download
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#### Installation Notes

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