

**Data sheet | Item number: 787-2805**

DC/DC Converter; 24 VDC input voltage; 12 VDC output voltage; 0.5 A output current; DC OK contact

[www.wago.com/787-2805](http://www.wago.com/787-2805)



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 24 V
Input voltage range	DC 15 ... 30 V
Nominal mains frequency range	0 Hz
Input current $I_i$	$\leq 0.5$ A
Inrush current	$\leq 0.5$ A (at nominal input voltage)

## Output

Nominal output voltage $U_{o\text{ nom}}$	DC 12 V
Output voltage range	$\pm 2$ %
Nominal output current $I_{o\text{ nom}}$	0.5 A
Nominal output power	6 W
Deviation	$\leq 2$ %
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 $P_l$	$\leq 0.21$ W; $\leq 0.7$ W (nominal load)
Efficiency (typ.)	90 % (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	48.6 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
PU (SPU)	1 pcs
Packaging type	bag
Country of origin	DE
GTIN	4055143407045
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)	4f2a43e4-a730-4da6-863a-5a38b11c0458
SCIP notification number (Belgium)	f9285629-a82b-482e-9934-56caaa89bd90
SCIP notification number (Bulgaria)	aa1c2089-ca90-475b-b065-b290f8c47c73
SCIP notification number (Czech Republic)	e4407a61-44ef-46f6-8b71-5957fb1b0e35
SCIP notification number (Denmark)	62e3f530-0083-4301-a58f-c18079aaac67
SCIP notification number (Finland)	b5859d05-b7e1-4a35-a43a-cf33af17f955
SCIP notification number (France)	9a8251e6-a882-4123-987f-3af679ef6e75
SCIP notification number (Germany)	6edaf339-2ec1-4a85-bfcf-c4ac37d4e41b
SCIP notification number (Hungary)	50511142-efbe-4d96-bb7d-4eb00b7c1b98
SCIP notification number (Italy)	7c3519fd-876f-4af4-a334-e0f41b17ffce

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SCIP notification number (Netherlands)	f84285ba-e8f4-418f-8037-d27c744e1818
SCIP notification number (Poland)	91abfe2e-594d-4cbf-9277-a9a191349087
SCIP notification number (Romania)	a5085aab-1513-44f7-a544-88b3170333b2
SCIP notification number (Sweden)	7ecaaaff-70ab-45de-8e2c-ff4a34524af3

## 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

### 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; 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>

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



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)**Tool**

## Operating tool

**Item no.: 210-720**

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

[www.wago.com/210-720](http://www.wago.com/210-720)**Downloads****Documentation****Bid Text**

787-2805 X81 - Datei	2019 年2月19 日	xml 5.8 kB	Download
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787-2805 docx - Datei	2016 年1月11 日	docx 20.4 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 787-2805	<a href="#">URL</a>	<a href="#">Download</a>
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### CAE data

EPLAN Data Portal 787-2805	<a href="#">URL</a>	<a href="#">Download</a>
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WSCAD Universe 787-2805	<a href="#">URL</a>	<a href="#">Download</a>
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ZUKEN Portal 787-2805	<a href="#">URL</a>	<a href="#">Download</a>
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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 787-2805	<a href="#">URL</a>	<a href="#">Download</a>
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DC OK contact

## Installation Notes

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