

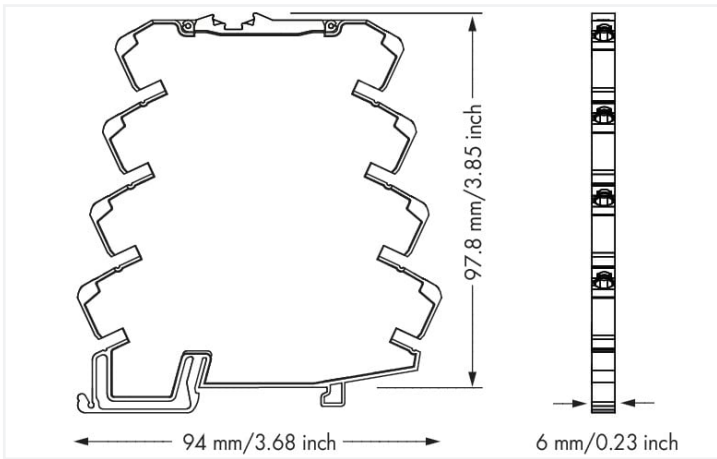
# Data Sheet | Item Number: 787-2805

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

<https://www.wago.com/787-2805>



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



Dimensions in mm

## 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

## Technical data

Input	
Nominal input voltage $U_{i, nom}$	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 $U_{o, nom}$	DC 12 V
Output voltage range	$\pm 2$ %
Nominal output current $I_{o, nom}$	0.5 A
Nominal output power	6 W
Deviation	$\leq 2$ %
Load regulation	$\leq 1$ %
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 ( $U_r$ , max. 4 mA)
Operation status indicator	Green LED ( $U_o$ ) Red LED (short circuit)

### Efficiency/power losses

Power loss $P_I$	$\leq 0.21$ 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
Resistance to reverse feed	$\leq$ DC 16 V
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	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

### 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	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
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



Approval	Standard	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

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 787-2805 <a href="#">↓</a>

Documentation

Bid Text			
787-2805	19.02.2019	xml 5.65 KB	<a href="#">↓</a>
787-2805	11.01.2016	doc 34.50 KB	<a href="#">↓</a>
787-2805	11.01.2016	docx 19.89 KB	<a href="#">↓</a>
787-2805	11.01.2016	pdf 89.73 KB	<a href="#">↓</a>

Instruction Leaflet			
DC/DC-Wandler	V 1.1.1 31.03.2020	pdf 2359.41 KB	<a href="#">↓</a>

CAD/CAE-Data

CAD data
2D/3D Models 787-2805 <a href="#">↓</a>

CAE data
EPLAN Data Portal 787-2805 <a href="#">↓</a>
WSCAD Universe 787-2805 <a href="#">↓</a>
ZUKEN Portal 787-2805 <a href="#">↓</a>

1 Compatible Products

1.1 Optional Accessories

1.1.1 Marking

### 1.1.1.1 Marker



#### 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

#### Item No.: 793-502

WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white

#### Item No.: 793-566

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; white

#### Item No.: 793-503

WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white



#### Item No.: 793-504

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white

#### Item No.: 793-505

WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; white

#### Item No.: 793-506

WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white

#### Item No.: 793-501

WMB marking card; as card; not stretchable; plain; snap-on type; white



#### Item No.: 2009-115

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

### 1.1.1.2 Marking strip



#### Item No.: 2009-110

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

### 1.1.2 Tool

#### 1.1.2.1 Operating tool



#### Item No.: 210-720

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