

Data sheet | Item number: 787-2802

DC/DC Converter; 24 VDC input voltage; 10 VDC output voltage; 0.5 A output current; DC OK contact

www.wago.com/787-2802



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

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

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

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

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

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



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	≤ 0.42 A
Inrush current	≤ 0.5 A (at nominal input voltage)

Output

Nominal output voltage $U_{o\text{ nom}}$	DC 10 V
Output voltage range	± 2 %
Nominal output current $I_{o\text{ nom}}$	0.5 A
Nominal output power	5 W
Deviation	≤ 2 %
Residual ripple	≤ 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	≤ 0.19 W; ≤ 0.7 W (nominal load)
Efficiency (typ.)	89 % (at nominal input voltage and nominal output)

Circuit protection

Internal fuse	No
---------------	----

Safety and protection

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

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



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 ² / 28 ... 14 AWG
Fine-stranded conductor	0.34 ... 2.5 mm ² / 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
---------------	-------------

Material Data

Fire load	0.418 MJ
Weight	36 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
--------------------	----

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

WAGO GmbH & Co. KG
 Hansastr. 27
 32423 Minden
 Phone: +49571 887-0 | Fax: +49571 887-169
 Email: info.de@wago.com | Web: www.wago.com

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



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
Recupel Type	
PU (SPU)	1 pcs
Packaging type	bag
Country of origin	DE
GTIN	4055143407069
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)	ce67853b-a327-4435-a15f-7e8b7a05bb28
SCIP notification number (Belgium)	a9ff99c9-4cac-4c9e-8c81-72a559df0d04
SCIP notification number (Bulgaria)	59d08204-c196-4538-9f66-1cb39f7bf0af
SCIP notification number (Czech Republic)	c0ec1c24-458c-411d-9012-061a533895da
SCIP notification number (Denmark)	b3d92ca7-f3c3-4f6c-8f21-dffe66b83525
SCIP notification number (Finland)	5e6ad7e9-0942-41c6-a9da-28b3343fbd4d
SCIP notification number (France)	bd6ecca3-a963-42c4-a754-c50c5b7e8be1
SCIP notification number (Germany)	c833769c-3814-44b5-a25d-dd261db33b06
SCIP notification number (Hungary)	83c5c8b3-ee6d-428f-9400-ca8b4666edee

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

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

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



SCIP notification number (Italy)	04280762-95a2-445c-9ac2-04755249d69d
SCIP notification number (Netherlands)	5102834b-552d-477c-ac82-90842191f952
SCIP notification number (Poland)	94ae0f57-3e3b-4a18-9eb8-069b2c40bd1b
SCIP notification number (Romania)	9b9145ff-794b-4db7-8977-6b29fee4ead2
SCIP notification number (Sweden)	12bb7370-a057-4c20-bb29-d2901042f6ca

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

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

Marking accessories

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

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



white

Item no.: 793-504WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; 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
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
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
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**Downloads****Documentation****Bid Text**

787-2802 X81 - Datei	2019 年2月19 日	xml 5.8 kB	Download
-------------------------	--------------	---------------	----------

787-2802 pdf - Datei	2016 年1月11 日	pdf 91.9 kB	Download
-------------------------	--------------	----------------	----------

787-2802 docx - Datei	2016 年1月11 日	docx 20.4 kB	Download
--------------------------	--------------	-----------------	----------

787-2802 doc - Datei	2016 年1月11 日	doc 35.3 kB	Download
-------------------------	--------------	----------------	----------

Instruction Leaflet

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

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
---	-------------------------	---------------	----------

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

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

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



CAD/CAE-Data

CAD data

2D/3D Models 787-2802	URL	Download
-----------------------	---------------------	--------------------------

CAE data

EPLAN Data Portal 787-2802	URL	Download
----------------------------	---------------------	--------------------------

ZUKEN Portal 787-2802	URL	Download
-----------------------	---------------------	--------------------------

WSCAD Universe 787-2802	URL	Download
-------------------------	---------------------	--------------------------

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-2802	URL	Download
---	---------------------	--------------------------

DC/DC Converter; 24 VDC input voltage; 10 VDC output voltage; 0.5 A output current;
DC OK contact

Installation Notes

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