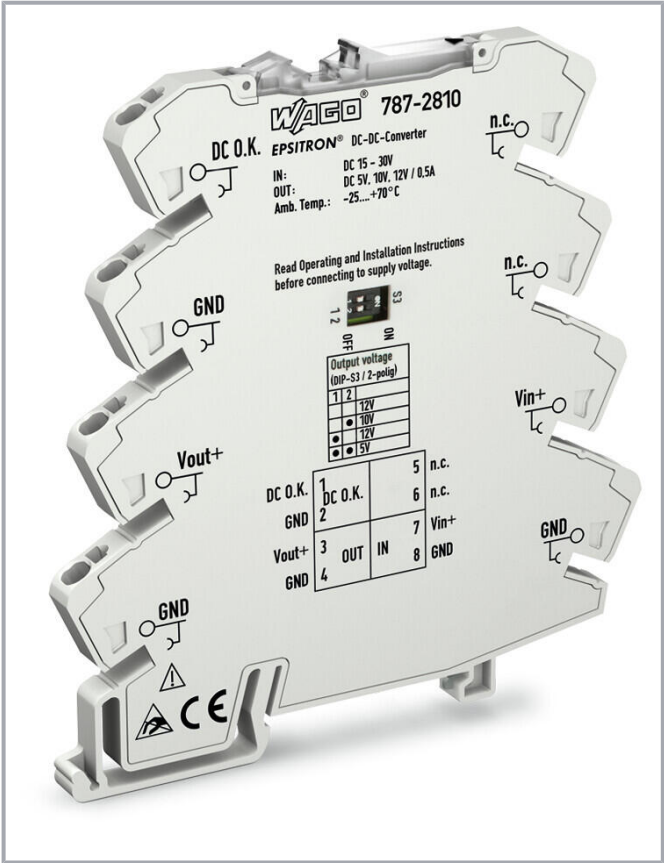


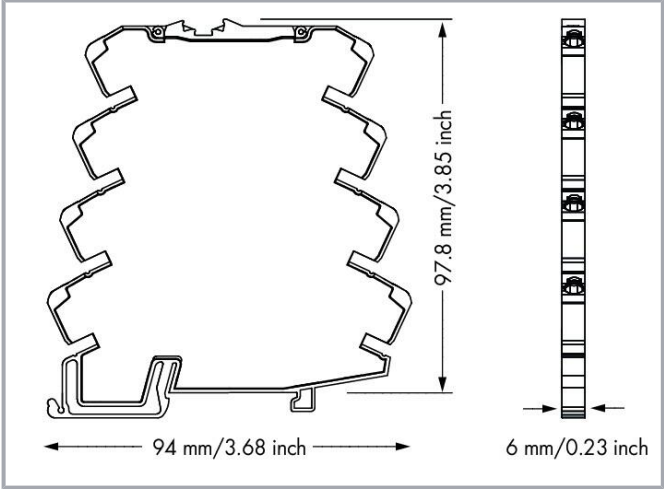
Data sheet | Item number: 787-2810

DC/DC Converter; 24 VDC input voltage; 5/10/12 VDC adjustable output voltage; 0.5 A output current; DC OK contact

www.wago.com/787-2810



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



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

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

Output

Nominal output voltage $U_{o\text{ nom}}$	DC 5 / 10 / 12 V (Adjustable via DIP switch)
Output voltage range	± 3 %
Nominal output current $I_{o\text{ nom}}$	0.5 A
Nominal output power	2.5 W
Deviation	≤ 3 %
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)

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



Efficiency/power losses

Power loss P_l	$\leq 0.21 \text{ W}; \leq 0.7 \text{ W}$ (nominal load)
Efficiency (typ.)	82.5 % (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
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
---------------	-------------

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Material data

Fire load	0.418 MJ
Weight	36.4 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
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	4055143440745
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

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

RoHS Compliance Status	Compliant, With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	eabc3905-ffc5-4667-9155-f05b53673875
SCIP notification number (Belgium)	0adddd40-e104-4c72-ab7b-1d1debecdb27
SCIP notification number (Bulgaria)	2338fea6-e376-4709-bd5d-70813548af58
SCIP notification number (Czech Republic)	a9ce542d-abc0-4b1f-9c23-01162ffb77ed
SCIP notification number (Denmark)	65351928-1118-4b60-8187-a66b7f4600a6
SCIP notification number (Finland)	24cd08db-1286-42fb-8732-484102a9d921
SCIP notification number (France)	51ad6168-048f-4d4f-a67c-7161b0440fe5
SCIP notification number (Germany)	18db0ecd-84a3-4e81-8e09-aec2199e33d4
SCIP notification number (Hungary)	e50bcb28-ed96-4031-a132-ccc833e6d2df
SCIP notification number (Italy)	110cb643-a819-4932-a51d-cdf356faed29
SCIP notification number (Netherlands)	f3c80b51-245f-442a-b193-968183274aea
SCIP notification number (Poland)	437bb647-6a14-4f72-a293-a2eb4e98b4de
SCIP notification number (Romania)	dc656d91-7c1a-4097-b447-dbe00e114880
SCIP notification number (Sweden)	538d88fe-495d-428b-9f4b-9493b7138130

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	-	-

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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; white www.wago.com/793-503**Item no.: 793-504**WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white www.wago.com/793-504**Item no.: 793-505**WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; white www.wago.com/793-505**Item no.: 793-506**WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white www.wago.com/793-506**Item no.: 793-566**WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; white www.wago.com/793-566**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

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

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Downloads

Documentation

Bid Text

787-2810 pdf - Datei	2019 Jun 24	pdf 92.1 kB	Download
787-2810 docx - Datei	2019 Jun 24	docx 20.5 kB	Download
787-2810 X81 - Datei	2019 Feb 19	xml 6.4 kB	Download

Instruction Leaflet

DC/DC-Wandler	V 1.1.1 2020 Mar 31	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 Aug 18	pdf 2.2 MB	Download
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CAD/CAE-Data

CAD data

2D/3D Models 787-2810	URL	Download
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CAE data

EPLAN Data Portal 787-2810	URL	Download
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ZUKEN Portal 787-2810	URL	Download
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Asset Administration Shell

Asset Administration Shell 787-2810	URL	Download
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Environmental Product Compliance

Compliance Search

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



Environmental Product Compliance 787-2810

[URL](#)

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DC/DC Converter; 24 VDC input voltage; 5/10/12 VDC adjustable output voltage; 0.5

A output current; DC OK contact

Installation Notes

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