

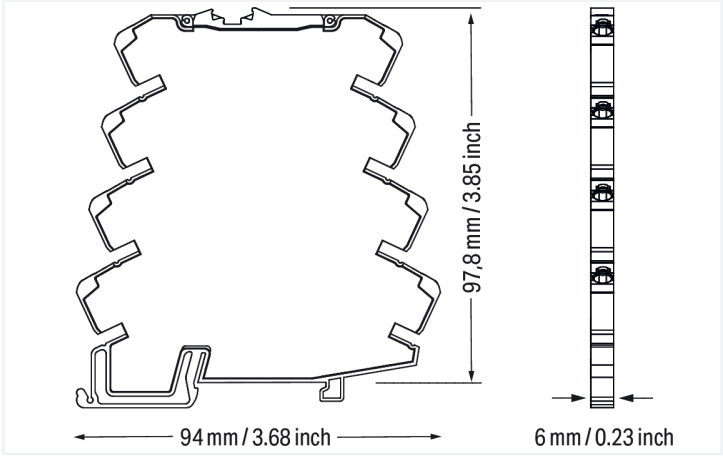
Data Sheet | Item Number: 787-2802

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

<https://www.wago.com/787-2802>



DC OK	1		5	n.c.
GND	2	DC OK	6	n.c.
V _{out} +	3		7	V _{in} +
GND	4	OUT	8	GND



- 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		Output	
Nominal input voltage U _{i nom}	24 VDC	Nominal output voltage U _{o nom}	10 VDC
Input voltage range	15 ... 30 VDC	Output voltage range	±2 %
Nominal mains frequency range	0 Hz	Nominal output current I _{o nom}	0.5 A
Input current I _i	≤ 0.42 A	Nominal output power	5 W
Inrush current	≤ 0.5 A (at nominal input voltage)	Deviation	≤ 2 %
		Load regulation	≤ 1 %
		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 _r , max. 4 mA)
Operation status indicator	Green LED (U _o) Red LED (short circuit)

Efficiency/power losses	
Power loss P _I	≤ 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
Resistance to reverse feed	≤ 16 VDC
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 mm² / 28 ... 14 AWG
Fine-stranded conductor	0.34 ... 2.5 mm² / 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	0.363 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
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 9.0	EC002540
ETIM 8.0	EC002540
PU (SPU)	1 pcs
Packaging type	Bag
Country of origin	DE
GTIN	4055143407069
Customs tariff number	85044083900

Environmental Product Compliance	
CAS-No.	1303-86-2 1317-36-8 7439-92-1
REACH Candidate List Substance	Diboron trioxide Lead Lead monoxide
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
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



Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081
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 787-2802

Documentation

Bid Text
787-2802
19.02.2019
xml 5.65 KB
787-2802
11.01.2016
doc 34.50 KB
787-2802
11.01.2016
docx 19.94 KB
787-2802
11.01.2016
pdf 89.71 KB

Instruction Leaflet
DC/DC-Wandler
V 1.1.1 31.03.2020
pdf 2359.41 KB

CAD/CAE-Data

CAD data
2D/3D Models 787-2802

CAE data
EPLAN Data Portal 787-2802
WSCAD Universe 787-2802
ZUKEN Portal 787-2802



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

Current addresses can be found at: www.wago.com