

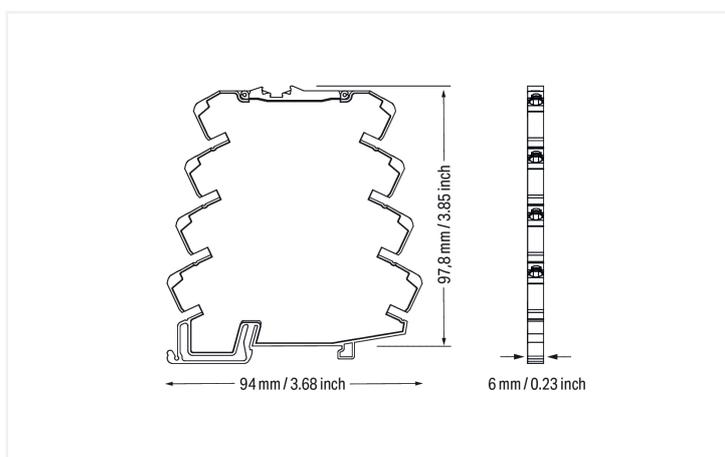
Data Sheet | Item Number: 787-2803

DC/DC Converter; 48 VDC input voltage; 24 VDC output voltage; 0.5 A output current; DC OK contact

<https://www.wago.com/787-2803>



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



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 $U_{i, nom}$	48 VDC
Input voltage range	40 ... 55 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.34 A
Inrush current	≤ 0.5 A (at nominal input voltage)

Output

Nominal output voltage $U_{o, nom}$	24 VDC
Output voltage range	± 3 %
Nominal output current $I_{o, nom}$	0.5 A
Nominal output power	12 W
Deviation	≤ 3 %
Load regulation	≤ 1 %
Residual ripple	≤ 20 mV (peak-to-peak)

Signaling and Communication

Signaling	1 x DC OK LED (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	≤ 0.29 W; ≤ 1.2 W (nominal load)
Efficiency (typ.)	91 % (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	≤ 27 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 1

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	0.363 MJ
Weight	32.6 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
Standards/specifications	EN 61000-6-2 EN 61000-6-3 EN 60950-1 UL 61010-2-201

Commercial data

PU (SPU)	1 pcs
Packaging type	Bag
Country of origin	DE
GTIN	4055143454308
Customs tariff number	85044083900

Product Classification

UNSPSC	39121006
eCl@ss 10.0	27-04-07-01
eCl@ss 9.0	27-04-07-01
ETIM 9.0	EC002540
ETIM 10.0	EC002540
ECCN	NO US CLASSIFICATION

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)	7fdcf80a-ea1c-4e61-a086-69d74a43c211
SCIP notification number (Belgium)	f9095a37-9cf1-4881-9c24-d8981a5029e9
SCIP notification number (Bulgaria)	0456d0eb-12ea-403f-a27c-2f5403f99bde
SCIP notification number (Czech Republic)	26725077-3d5b-4a47-bbd2-845664152dab
SCIP notification number (Denmark)	c02510db-753e-46ae-b0ec-cf8499a07c41
SCIP notification number (Finland)	e2ce865d-a1f2-498a-b88d-2b47a5805513
SCIP notification number (France)	4262cfff-b19e-40f6-9af3-5f977fc9a019
SCIP notification number (Germany)	f913db78-e89b-4c3a-b5c7-9fd73456200f
SCIP notification number (Hungary)	808d3960-104d-46be-a1a6-4b855d92b7e2
SCIP notification number (Italy)	147979e2-e7d4-4102-a8d8-bde6fea6bd37
SCIP notification number (Netherlands)	b73eb116-cdbd-4e20-bb6a-b7c828efd196
SCIP notification number (Poland)	907dec48-bed8-4b54-8f64-c5803f000017
SCIP notification number (Romania)	f3a79f75-93b8-45c9-92d9-c97b39c51c68
SCIP notification number (Sweden)	dd526566-1e3c-494a-a3a7-c71e331c938c

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 787-2803



Documentation

Bid Text

787-2803	24.06.2019	docx 19.94 KB	
787-2803	24.06.2019	pdf 89.81 KB	
787-2803	06.12.2019	xml 6.10 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
787-2803



CAE data

EPLAN Data Portal
787-2803



WSCAD Universe
787-2803



ZUKEN Portal
787-2803



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