

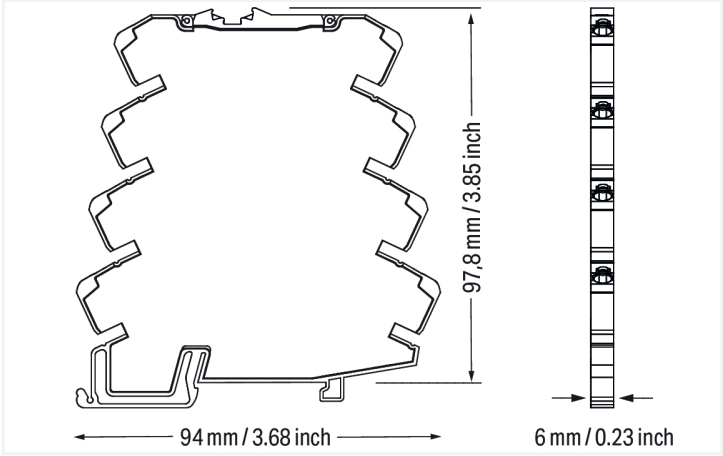
Data Sheet | Item Number: 787-2801

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

<https://www.wago.com/787-2801>



DC OK	1	DC OK	5	n.c.
GND	2		6	n.c.
V <sub>out</sub> +	3	OUT	7	V <sub>in</sub> +
GND	4	IN	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 <sub>i nom</sub>	24 VDC	Nominal output voltage U <sub>o nom</sub>	5 VDC
Input voltage range	10 ... 30 VDC	Output voltage range	±3 %
Nominal mains frequency range	0 Hz	Nominal output current I <sub>o nom</sub>	0.5 A
Input current I <sub>i</sub>	≤ 0.34 A	Nominal output power	2.5 W
Inrush current	≤ 0.5 A (at nominal input voltage)	Deviation	≤ 3 %
		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 <sub>r</sub> , max. 4 mA)
Operation status indicator	Green LED (U <sub>o</sub> ) Red LED (short circuit)

Efficiency/power losses	
Power loss P <sub>I</sub>	≤ 0.13 W; ≤ 0.6 W (nominal load)
Efficiency (typ.)	82.5 % (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 1	
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	49.9 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	4055143407052
Customs tariff number	85044083900

Product classification	
UNSPSC	39121004
eCl@ss 10.0	27-04-07-01
eCl@ss 9.0	27-04-07-01
ETIM 9.0	EC002540
ETIM 8.0	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)	dd50b732-8f7f-4611-b548-bf9573ea47e5
SCIP notification number (Belgium)	ac3172f8-3cbe-4f5b-9673-cd53b2ff89b8
SCIP notification number (Bulgaria)	21260fb1-503b-4168-9dba-d4525e9688c5
SCIP notification number (Czech Republic)	fa0beb31-1f2e-4c70-9a5a-b2bf14d31c85
SCIP notification number (Denmark)	0ad7bafd-8a3f-4226-bcf8-90ccd0e1b480
SCIP notification number (Finland)	322b3f8e-3e92-42ca-b31b-ff2e12ae260b
SCIP notification number (France)	1716346b-8c81-4e60-ae92-991ce8df89bd
SCIP notification number (Germany)	c45cc0ab-24fa-4039-8544-5e118629f44a
SCIP notification number (Hungary)	2b916107-02f4-4a9e-abad-02090b60a02c
SCIP notification number (Italy)	399b6ded-51df-4a3d-a176-1a41fd98f76b
SCIP notification number (Netherlands)	65de8cba-9fda-4434-a0b1-d526e9af032b
SCIP notification number (Poland)	0bc56092-a29d-4805-9a94-5c8dd1a2a9fd
SCIP notification number (Romania)	cae1bd68-4828-4698-9fb8-cc38c4553b4d
SCIP notification number (Sweden)	1a0a3f03-4fbd-4318-be50-926c4dfdba0f



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 787-2801



Documentation

Bid Text
787-2801
19.02.2019
xml 5.65 KB
↓
787-2801
11.01.2016
doc 34.00 KB
↓
787-2801
11.01.2016
docx 19.85 KB
↓
787-2801
11.01.2016
pdf 89.66 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 787-2801



CAE data
EPLAN Data Portal 787-2801
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WSCAD Universe 787-2801
↓
ZUKEN Portal 787-2801
↓



1 Compatible Products

1.1 Optional Accessories

1.1.1 Marking

1.1.1.1 Marker



<p><b>Item No.: 793-5501</b> WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white</p>	<p><b>Item No.: 793-502</b> WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white</p>	<p><b>Item No.: 793-566</b> WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; white</p>	<p><b>Item No.: 793-503</b> WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white</p>
<p><b>Item No.: 793-504</b> WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white</p>	<p><b>Item No.: 793-505</b> WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; white</p>	<p><b>Item No.: 793-506</b> WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white</p>	<p><b>Item No.: 793-501</b> WMB marking card; as card; not stretchable; plain; snap-on type; white</p>
<p><b>Item No.: 2009-115</b> WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white</p>			



1.1.1.2 Marking strip



<p><b>Item No.: 2009-110</b> Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white</p>
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1.1.2 Tool

1.1.2.1 Operating tool



<p><b>Item No.: 210-720</b> Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured</p>
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