

Data sheet | Item number: 859-805

DC/DC Converter; 24 VDC input voltage; 12 VDC output voltage; 0.5 A output current; 2,50 mm²; gray

www.wago.com/859-805



Color:

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

WAGO GmbH & Co. KG
Hansastr. 27
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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.



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
Mains failure hold-up time	≥ 0.5 ms

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Output

Nominal output voltage $U_{o\ nom}$	DC 12 V
Output voltage range	$\pm 2\ %$
Nominal output current $I_{o\ nom}$	0.5 A
Residual ripple	$\leq 20\ mV$
Switching frequency	20 kHz (nominal)
Overload behavior	Temporary no damage (short circuit of the output for 1 minute)

Signaling and Communication

Signaling	1 x LED
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Efficiency/power losses

Efficiency (typ.)	85 %
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Circuit protection

Internal fuse	TVS diode
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Safety and protection

Protection class	III
Protection type	IP20; per EN 60529
Reverse voltage protection	Yes
Pollution degree	2
Series operation	No

Connection data

Number of jumper slots	2
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 859 Series
Solid conductor	0.08 ... 2.5 mm ² / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 2.5 mm ² / 28 ... 14 AWG
Strip length	5 ... 6 mm / 0.2 ... 0.24 inches

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



Physical data

Width	6 mm / 0.236 inches
Height	91 mm / 3.583 inches
Height from upper-edge of DIN-rail	56 mm / 2.205 inches
Depth	91 mm / 3.583 inches
Depth from upper-edge of DIN-rail	56 mm / 2.205 inches

Mechanical Data

Housing design	Rail-mount terminal block
Mounting type	DIN-35 rail DIN-35 rail

Material Data

Color	gray
Fire load	0.48 MJ
Weight	35 g

Environmental requirements

Ambient temperature (operation)	-25 ... +55 °C
Operating altitude (max.)	2000 m

Standards and specifications

Conformity marking	CE
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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)	10 (1) pcs
Packaging type	box
Country of origin	US
GTIN	4050821017486
Customs tariff number	85044083900

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Environmental Product Compliance

RoHS Compliance Status

Compliant, No Exemption

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 508	E175199 Sec.4

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for hazardous areas

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	ANSI/ISA 12.12.01	E198726

Optional accessories

End plate

Intermediate plate	Item no.: 859-525 End and intermediate plate; 1 mm thick; gray	www.wago.com/859-525
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Marking accessories

Marking device	Item no.: 210-110 Fiber-tip pen	www.wago.com/210-110
Marker	Item no.: 2009-145 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	www.wago.com/2009-145
	Item no.: 248-501 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white	www.wago.com/248-501

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



Item no.: 248-503 Mini-WSB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white	www.wago.com/248-503
Item no.: 248-506 Mini-WSB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white	www.wago.com/248-506
Item no.: 248-502 Mini-WSB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white	www.wago.com/248-502
Item no.: 793-501 WMB marking card; as card; not stretchable; plain; snap-on type; white	www.wago.com/793-501
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
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

Downloads

Documentation

Bid Text

859-805 X81 - Datei	2019 年2月19 日	xml 4.3 kB	Download
859-805 doc - Datei	2015 年2月6 日	doc 27.6 kB	Download

Instruction Leaflet

DC/DC-Wandler		pdf 68.8 kB	Download
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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
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CAD/CAE-Data

CAE data

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ZUKEN Portal 859-805	URL	Download
CAD data		
2D/3D Models 859-805	URL	Download

Environmental Product Compliance

Compliance Search

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Installation Notes

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