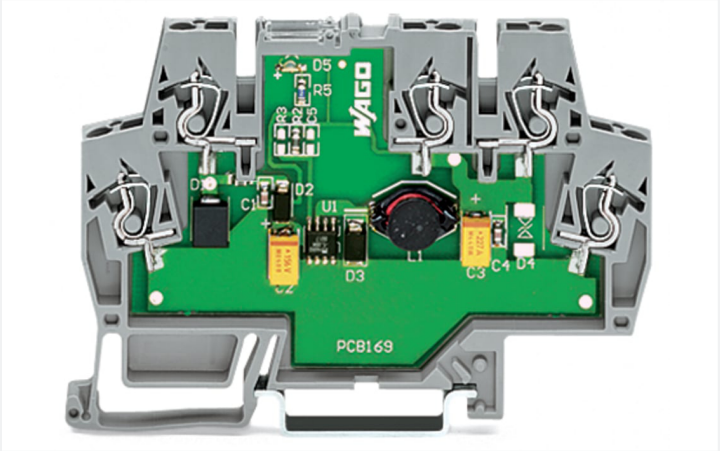
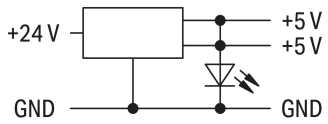
Data Sheet | Item Number: 859-801

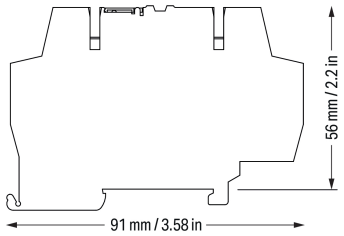
DC/DC Converter; 24 VDC input voltage; 5 VDC output voltage; 0.4 A output current; 2,50 mm²; gray

https://www.wago.com/859-801





Color: gray



End and intermediate plate (859-525) is included

Technical data

Input

Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	10 … 30 VDC
Nominal mains frequency range	0 Hz
Mains failure hold-up time	≥ 1 ms

Output

Nominal output voltage $U_{o\,nom}$	5 VDC
Output voltage range	±2 %
Nominal output current $I_{o\,nom}$	0.5 A (single, 10 mm spacing); 0.4 A (in a row)
Operating voltage feedthrough	≤ 2 %
Load regulation	≤ 0.5 %
Residual ripple	≤ 150 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

Efficiency/Power Losses

Efficiency (typ.)	70 %

Circuit Protection

Internal fuse	TVS diode

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 1

Connection technology	CAGE CLAMP®
WAGO connector	WAGO 859 Series
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Strip length	5 … 6 mm / 0.2 … 0.24 inches

Physical data

Width	6 mm / 0.236 inches
Height	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

Material data

Color	gray
Fire load	0.41 MJ
Weight	20 g

Environmental requirements

Ambient temperature (operation)	0 … +40 °C

Continued on next page

Standards and Specifications

Conformity marking	CE

Commercial data

PU (SPU)	10 (1) pcs
Packaging type	Box
Country of origin	US
GTIN	4050821021568
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 10.0	EC002540
ECCN	EAR99

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

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 508	E175199 Sec.4

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for hazardous areas

Approval	Standard	Certificate Name
CCC CNEX	CNCA-C23-01	2021312304000982 (Ex ec IIC T4 Gc)
UKEx WAGO GmbH & Co. KG	EN 60079-0	WAGO22UKEX007X_ec
UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	ANSI/ISA 12.12.01	E198726

Continued on next page

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 859-801

Documentation

Bid Text

859-801	19.02.2019	xml 4.23 KB
859-801	06.02.2015	doc 26.00 KB

Instruction Leaflet

CCC Ex (Additional information)	26.04.2023	pdf 132.68 KB
DC/DC-Wandler		pdf 79.43 KB

CAD/CAE-Data

CAD data

2D/3D Models 859-801

CAE data

EPLAN Data Portal 859-801

WSCAD Universe 859-801

ZUKEN Portal 859-801

1 Compatible Products

1.1 Optional Accessories

1.1.1 End plate

1.1.1.1 End plate



Item No.: 859-525
End and intermediate plate; 1 mm thick; gray

1.1.1.2 Intermediate plate



Item No.: 859-525
End and intermediate plate; 1 mm thick; gray

Continued on next page

1.1.2 Marking

1.1.2.1 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



Item No.: 248-502
Mini-WSB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 248-503
Mini-WSB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 248-506
Mini-WSB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 248-501
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white

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.: 793-501
WMB marking card; as card; not stretchable; plain; snap-on type; white

1.1.2.2 Marking device



Item No.: 210-110
Fiber-tip pen

1.1.3 Tool

1.1.3.1 Operating tool



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