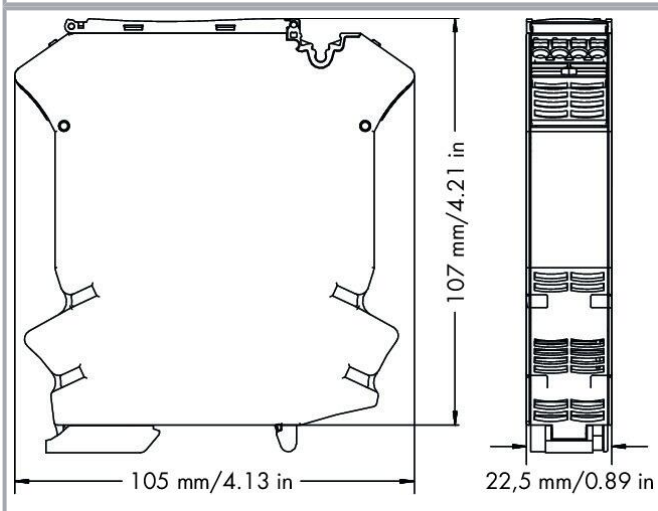
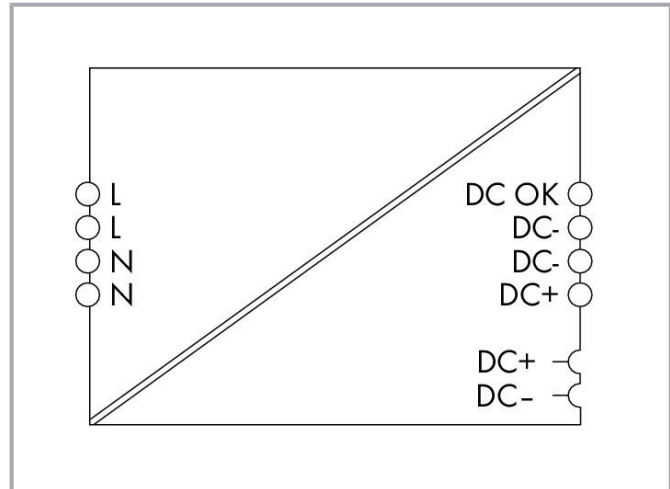
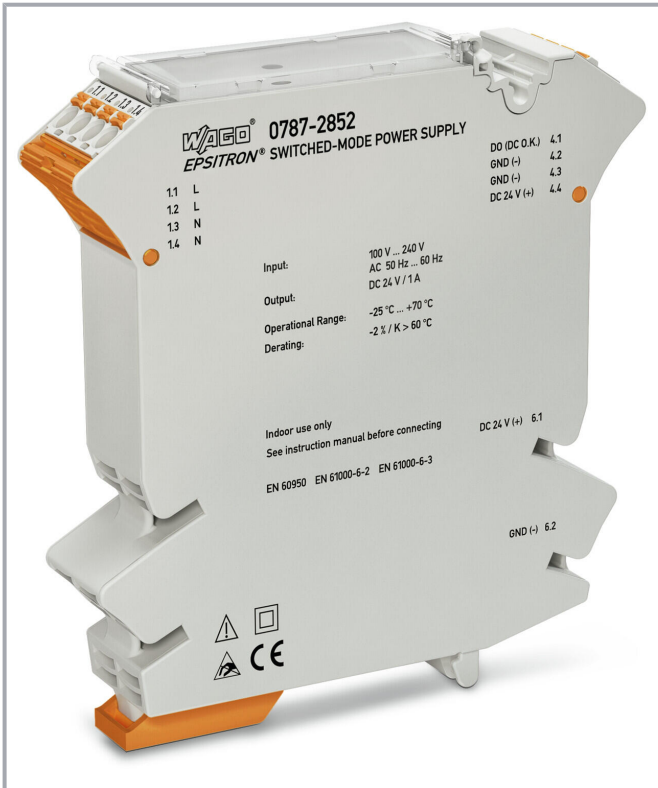


Data sheet | Item number: 787-2852

Switched-mode power supply; 1-phase; 24 VDC output voltage; 1 A output current



www.wago.com/787-2852



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

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
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.

Item description

Features:

- Switched-mode power supply in 22.5 mm wide 2857 Series housing; device shares a common profile with the 2857 and 857 Series Signal Conditioners.
- Both 24 VDC and 0 V output voltage can be easily supplied to adjacent modules via 859-4xx Jumpers.
- Pluggable *picoMAX*[®] Connection Technology
- Natural convection cooling
- DC OK message as active signal output (24 VDC, 20 mA)
- Integrated redundancy diode enables easy fail-safe power supply via parallel connection of two power supplies.
- Approvals for worldwide applications

Data

Technical data

Input

Phases	1
Nominal input voltage $U_{i\text{nom}}$	1 x AC 100 ... 240 V
Input voltage range	1 x AC 85 ... 264 V; DC 120 ... 372 V
Nominal mains frequency range	47 ... 63 Hz; 0 Hz
Input current I_i	≤ 0.28 A (240 VAC; Nominal load); ≤ 0.49 A (100 VAC; Nominal load)
Inrush current	≤ 30 A
Power factor	≥ 0.6 (230 VAC; Nominal load; per EN 61000-3-2)
Power factor correction (PFC)	None
Mains failure hold-up time	≥ 20 ms (100 VAC)

Output

Nominal output voltage $U_{o\text{nom}}$	DC 24 V (SELV)
Nominal output current $I_{o\text{nom}}$	1 A
Nominal output power	24 W
Residual ripple	≤ 100 mV (peak-to-peak)
Current limitation	$1.1 \times I_{o\text{nom}}$ (typ.)
Overload behavior	Constant current

Signaling and Communication

Signaling	1 x LED DC OK (green)
-----------	-----------------------

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



	1 x Overload LED (red)
Operation status indicator	Green LED ($U_o > 21.5 \text{ V}$)
	Red LED (overload)

Efficiency/power losses

Power loss P_I	$\leq 1 \text{ W}; \leq 4.3 \text{ W}$ (230 VAC; nominal load)
Power loss (max.) $P_{I(\text{max.})}$	5 W (100 VAC / 24 VDC; 1 A)
Efficiency (typ.)	86 % (230 VAC; nominal load); 84 % (110 VAC; nominal load)

Circuit protection

Internal fuse	T 2 A / 250 VAC
Backup fusing (recommended)	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C

Safety and protection

Protection class	II
Protection type	IP20; per EN 60529
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit $\leq 29 \dots 31 \text{ VDC}$ (in the event of a fault)
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes, for 2 devices of the same type
Series operation	Yes, for 2 devices of the same type
MTBF	$> 500,000 \text{ h}$ (at 25 °C per IEC 61709)

Connection data

Number of jumper slots	4
Connection type 1	Input/Output/Signaling
Connection technology	Push-in CAGE CLAMP®
WAGO connector	<i>picoMAX</i> ® 5.0
Solid conductor	0.2 ... 2.5 mm ² / 24 ... 10 AWG
Fine-stranded conductor	0.2 ... 2.5 mm ² / 24 ... 10 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 inches

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



Physical data

Width	22.5 mm / 0.886 inches
Height from upper-edge of DIN-rail	107 mm / 4.213 inches
Depth	105 mm / 4.122 inches

Mechanical Data

Mounting type	DIN-35 rail
---------------	-------------

Material Data

Fire load	1.417 MJ
Weight	200 g

Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C (Nominal mounting position; -25 ... +55 °C (in any mounting position))
Ambient temperature (storage)	-25 ... +85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	-2 %/K (> 60 °C)

Standards and specifications

Conformity marking	CE
Standards/specifications	EN 61000-6-2 EN 61000-6-3 EN 60950-1 DNV
Standards/specifications (pending)	UL 60950 cULus 508 ANSI/ISA 12.12.01 (Class I Div. 2) ATEX/IEC Ex

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
PU (SPU)	1 pcs
Packaging type	box

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




Country of origin	DE
GTIN	4055143295529
Customs tariff number	85044083900

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 004/2011, TP TC 020/2011	EAC RU C-DE.AM02.B. 00089_19

Declarations of conformity and manufacturer's declarations


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

Approvals for marine applications











Logo	Approval	Additional Approval Text	Certificate name
	DNV DNV Germany GmbH	DNV-CG-0339, Aug. 2021	TAA0000154

Optional accessories

Marking accessories

Marking strip			
	Item no.: 2009-110 Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white		www.wago.com/2009-110
Marker			

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

	Item no.: 2009-115 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	www.wago.com/2009-115
	Item no.: 793-501 WMB marking card; as card; not stretchable; plain; snap-on type; white	www.wago.com/793-501
	Item no.: 793-502 WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white	www.wago.com/793-502
	Item no.: 793-503 WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white	www.wago.com/793-503
	Item no.: 793-504 WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white	www.wago.com/793-504
	Item no.: 793-505 WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; white	www.wago.com/793-505
	Item no.: 793-506 WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white	www.wago.com/793-506
	Item no.: 793-566 WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; white	www.wago.com/793-566
	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
	Item no.: 2009-141 Micro-WSB-Inline; 2000 pieces on roll; plain; snap-on type; white	www.wago.com/2009-141

Jumpers

Jumper		
	Item no.: 281-482 Jumper; 2-way; insulated; gray	www.wago.com/281-482
	Item no.: 859-402/000-029 Jumper; for jumper slot; 2-way; insulated; yellow	www.wago.com/859-402/000-029
	Item no.: 859-402/000-006 Jumper; for jumper slot; 2-way; insulated; blue	www.wago.com/859-402/000-006
	Item no.: 859-402 Jumper; for jumper slot; 2-way; insulated; light gray	www.wago.com/859-402
		

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

Item no.: 859-402/000-005

Jumper; for jumper slot; 2-way; insulated; red

www.wago.com/859-402/000-005

Terminal blocks

Supply module



Item no.: 857-979

Supply and through module

www.wago.com/857-979

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

787-2852 doc - Datei	2016 Jan 6	doc 37.9 kB	Download
787-2852 X81 - Datei	2016 Jan 6	xml 6.7 kB	Download

Instruction Leaflet

Primär getaktete Stromversorgungen DC 24 V, 1 A		pdf 337.0 kB	Download
--	--	-----------------	----------

Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 Aug 18	pdf 2.2 MB	Download
---	------------------------	---------------	----------

CAD/CAE-Data

CAD data

2D/3D Models 787-2852		URL	Download
-----------------------	--	-----	----------

CAE data

EPLAN Data Portal 787-2852

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

WAGO GmbH & Co. KG

Hansastr. 27

32423 Minden

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.



	URL	Download
ZUKEN Portal 787-2852	URL	Download
WSCAD Universe 787-2852	URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-2852	URL	Download
Switched-mode power supply; 1-phase; 24 VDC output voltage; 1 A output current		

Installation Notes

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