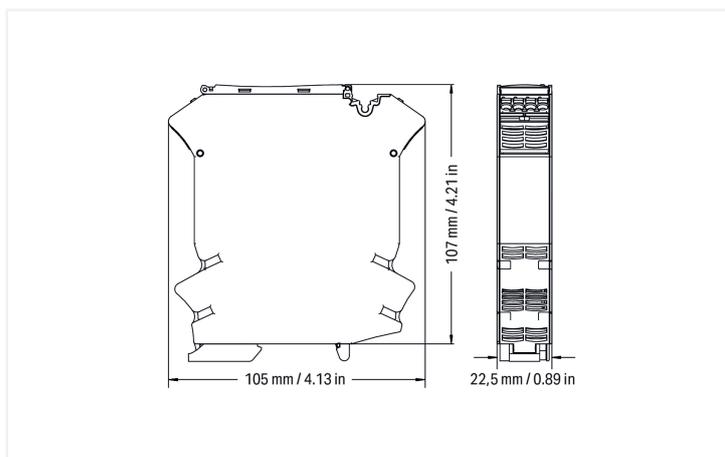
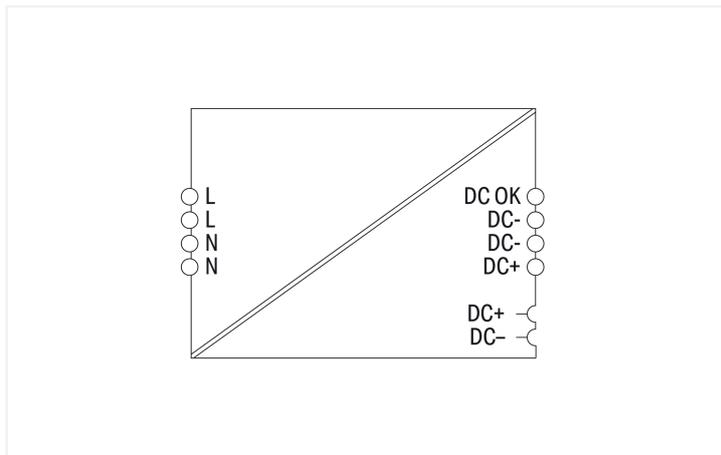


Data Sheet | Item Number: 787-2852

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

<https://www.wago.com/787-2852>



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

Technical data

Input	
Phases	1
Nominal input voltage $U_{i\text{nom}}$	1 x 100 ... 240 VAC
Input voltage range	1 x 85 ... 264 VAC; 120 ... 372 VDC
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)
Discharge current	≤ 1 mA
Inrush current	≤ 30 A
Power factor	≥ 0.6 (230 VAC; nominal load; per EN 61000-3-2)

Input	
Power factor correction (PFC)	None
Mains failure hold-up time	≥ 20 ms (100 VAC)

Output

Nominal output voltage $U_{o, nom}$	24 VDC (SELV)
Default Setting	24 VDC
Nominal output current $I_{o, nom}$	1 A
Nominal output power	24 W
Deviation	$\leq 2 \%$
Deviation, dynamic load change 10 ... 90 %	$\leq 1 \%$
Residual ripple	≤ 100 mV (peak-to-peak)
Current limitation	$1.1 \times I_{o, nom}$ (typ.)
Overload behavior	Constant current

Efficiency/Power Losses

Power loss P_1	≤ 1 W; ≤ 4.3 W (230 VAC; nominal load)
Power loss (max.) $P_{1(max)}$	5 W (100 VAC / 24 VDC; 1 A)
Efficiency (typ.)	86 % (230 VAC; nominal load); 84 % (110 VAC; nominal load)

Safety and protection

Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class	II
Protection type	IP20; per EN 60529
Resistance to reverse feed	≤ 60 VDC
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit $\leq 29 \dots 31$ 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	$> 500,000$ h (at 25 °C per IEC 61709)

Connection Data

Number of jumper slots	4
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Signaling and Communication

Signaling	1 x DC OK LED (green) 1 x Overload LED (red) 1 x Active signal output DC OK (24 VDC; 20 mA)
Operation status indicator	Green LED ($U_o > 21.5$ V) Red LED (overload)

Circuit Protection

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

Physical data

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

Connection 1

Connection type	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

Mechanical data

Mounting type	DIN-35 rail
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Material data

Fire load	1.392 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)
Climatic category	3K3 (per EN 60721)

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/IECEX

Commercial data

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143295529
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	NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 004/2011	EAC CoC 03078
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081

Declarations of conformity and manufacturer's declarations

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

Approvals for marine applications



Approval	Standard	Certificate Name
DNV DNV Germany GmbH	DNV-CG-0339,Aug.2021	TAA0000154

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-2852	↓
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Documentation

Bid Text

787-2852	06.01.2016	xml 6.55 KB	↓
787-2852	06.01.2016	doc 37.00 KB	↓

Instruction Leaflet

Primär getaktete Stromversorgungen	pdf 329.08 KB	↓
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CAD/CAE-Data

CAD data

2D/3D Models 787-2852	↓
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CAE data

EPLAN Data Portal 787-2852	↓
WSCAD Universe 787-2852	↓
ZUKEN Portal 787-2852	↓

1 Compatible Products

1.1 Optional Accessories

1.1.1 Jumper

1.1.1.1 Jumper



Item No.: 281-482
Jumper; 2-way; insulated; gray

Item No.: 859-402/000-006
Jumper; for jumper slot; 2-way; insulated; blue

Item No.: 859-402
Jumper; for jumper slot; 2-way; insulated; light gray

Item No.: 859-402/000-005
Jumper; for jumper slot; 2-way; insulated; red



Item No.: 859-402/000-029
Jumper; for jumper slot; 2-way; insulated; yellow

1.1.2 Marking

1.1.2.1 Marker



Item No.: 2009-141
Micro-WSB-Inline; 2000 pieces on roll; 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.: 793-502
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

1.1.2.2 Marking strip



Item No.: 2009-110
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

1.1.3 Terminal blocks

1.1.3.1 Supply module



Item No.: 857-979
Supply and through module

1.1.3.2 Through terminal block



Item No.: [857-979](#)

Supply and through module

1.1.4 Tool

1.1.4.1 Operating tool



Item No.: [210-720](#)

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured