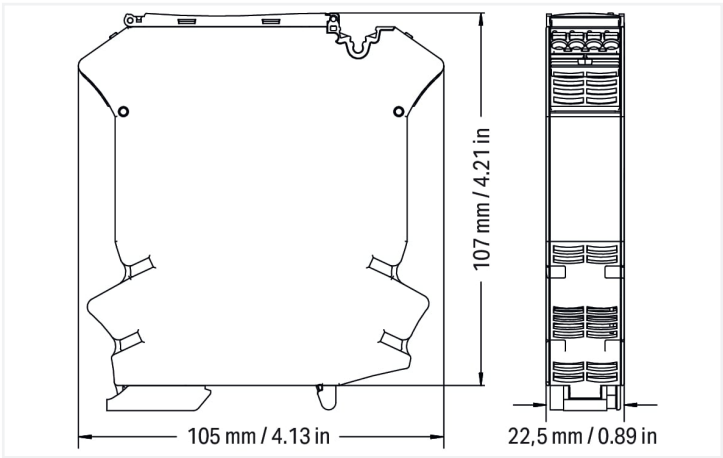
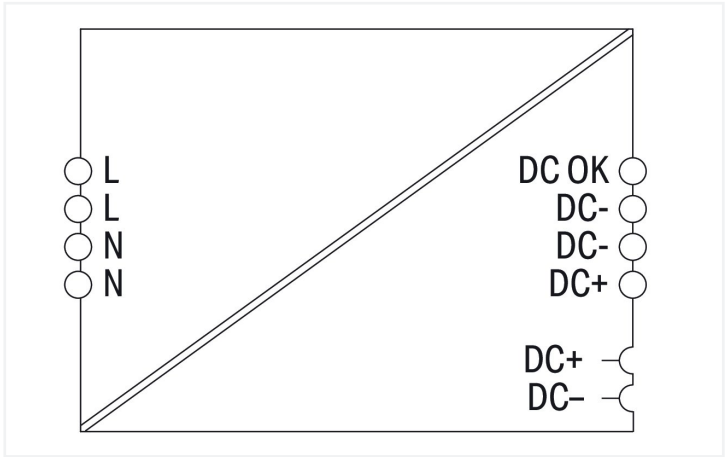




- Features:**
- Switched-mode power supply in 22.5 mm wide 2857 Series housing; device shares a common profile with the 2857 and 857 Series Signal Conditioners.
 - Both 24 VDC and 0 V output voltage can be easily supplied to adjacent modules via 859-4xx Jumpers.
 - Pluggable *picoMAX*® Connection Technology
 - 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		Output	
Phases	1	Nominal output voltage $U_{o\ nom}$	24 VDC (SELV)
Nominal input voltage $U_{i\ nom}$	1 x 100 ... 240 VAC	Default Setting	DC 24 V
Input voltage range	1 x 85 ... 264 VAC; 120 ... 372 VDC	Nominal output current $I_{o\ nom}$	1 A
Nominal mains frequency range	47 ... 63 Hz; 0 Hz	Nominal output power	24 W
Input current I_i	≤ 0.28 A (240 VAC; nominal load); ≤ 0.49 A (100 VAC; nominal load)	Deviation	≤ 2 %
Discharge current	≤ 1 mA	Deviation, dynamic load change 10 ... 90 %	≤ 1 %
Inrush current	≤ 30 A	Residual ripple	≤ 100 mV (peak-to-peak)
Power factor	≥ 0.6 (230 VAC; Nominal load; per EN 61000-3-2)	Current limitation	1.1 x $I_{o\ nom}$ (typ.)
Power factor correction (PFC)	None	Overload behavior	Constant current
Mains failure hold-up time	≥ 20 ms (100 VAC)		



Signaling and communication	
Signaling	1 x LED DC OK (green) 1 x Overload LED (red) 1 x Active signal output DC OK (24 VDC; 20 mA)
Operation status indicator	Green LED ($U_o > 21.5\text{ V}$) 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.) $P_{I(max)}$	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	
Isolation voltage (pri.-sec.)	DC 4.242 kV
Protection class	II
Protection type	IP20; per EN 60529
Resistance to reverse feed	$\leq 60\text{ VDC}$
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 $25\text{ }^\circ\text{C}$ per IEC 61709)

Connection data	
Number of jumper slots	4
Connection type 1	Input/output/signaling
Connection technology	Push-in CAGE CLAMP®
WAGO connector	picoMAX® 5.0
Solid conductor	$0.2 \dots 2.5\text{ mm}^2 / 24 \dots 10\text{ AWG}$
Fine-stranded conductor	$0.2 \dots 2.5\text{ mm}^2 / 24 \dots 10\text{ AWG}$
Strip length	$9 \dots 10\text{ mm} / 0.35 \dots 0.39\text{ inches}$

Physical data	
Width	$22.5\text{ mm} / 0.886\text{ inches}$
Height	$105\text{ mm} / 4.122\text{ inches}$
Depth from upper-edge of DIN-rail	$107\text{ mm} / 4.213\text{ inches}$

Mechanical data	
Mounting type	DIN-35 rail



Material data	
Fire load	1.413 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	
eCl@ss 10.0	27-04-07-01
eCl@ss 9.0	27-04-07-01
ETIM 9.0	EC002540
ETIM 8.0	EC002540
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143295529
Customs tariff number	85044083900

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals			Declarations of conformity and manufacturer's declarations		
			Approval	Standard	Certificate Name
Approval	Standard	Certificate Name	EU-Declaration of Confor-		
EAC	TP TC 004/2011	EAC CoC 03078	mity	-	-
GZO Almaty Standart			WAGO GmbH & Co. KG		
EAC	TP TC 020/2011	EAC CoC 03081			
GZO Almaty Standart					



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



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



CAD/CAE-Data

CAD data
2D/3D Models 787-2852



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

1.1.2.1 Marker



Item No.: 2009-141
Micro-USB-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