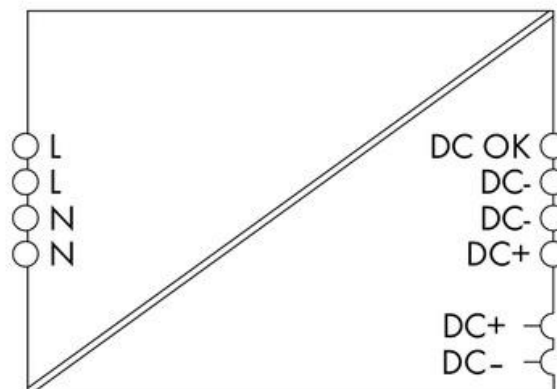




Item description

Switched-mode power supply in 22.5 mm wide 2857 Series housing, same profile as 2857 and 857 Series JUMPFLEX® Signal Conditioners

Both 24 VDC and 0 V output voltage can be easily supplied to adjacent JUMPFLEX® 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 with JUMPFLEX® Modules (pending)

Data

Technical Data



Input

Phases	1
Nominal input voltage $U_{i\text{ nom}}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 372 VDC
Nominal mains frequency range	47 ... 63 Hz; 0 Hz
Input current I_i	$\leq 0.28\text{A}$ (240 VAC; nominal load); $\leq 0.49\text{A}$ (100 VAC; nominal load)
Discharge current max.	1 mA
Discharge current	$\leq 1\text{ mA}$
Inrush current	$\leq 30\text{A}$
Input voltage (AC) min.	85 V
Power factor	≥ 0.6 (230 VAC; nominal load; per EN 61000-3-2)
Input voltage (AC) max.	264 V
Power factor correction (PFC)	None
Mains failure hold-up time	$\geq 20\text{ ms}$ (100 VAC)
Input voltage range	85 ... 264 VAC; 120 ... 370 VDC

Output

Nominal output voltage (DC)	24 V
Nominal output voltage $U_{o\text{ nom}}$	24 VDC (SELV)
Factory preset	24 VDC
Nominal output current	1 A
Nominal output current $I_{o\text{ nom}}$	1 A
Nominal output power	24 W
Adjustment accuracy	2 %
Deviation, dynamic load change 10 ... 90 %	1 %
Residual ripple max.	100 mV
Residual ripple	$\leq 100\text{ mV}$ (peak-to-peak)
Mains failure hold-up time	$\geq 20\text{ ms}$ (100 VAC)
Current limitation	$1.1 \times I_{o\text{ nom}}$ typ.
Overload behavior	Constant current

Signaling and communication

Signaling	1 x LED DC OK (green) 1 x LED overload (red) 1 x active signal output DC OK (24 VDC, 20 mA)
Operation status indicator	LED green ($U_o > 21.5\text{ V}$) LED red (overload)

**Efficiency/Power losses:**

Power loss P_v	$\leq 1 \text{ W}$ (230 VAC; no load); $\leq 4.3 \text{ W}$ (230 VAC; nominal load)
Max. power loss $P_{v \text{ max}}$	$\leq 5 \text{ W}$ (100 VAC / 24 VDC; 1 A)
Efficiency	$\geq 86 \%$ (230 VAC; nominal load); $\geq 84 \%$ (110 VAC; nominal load)

Fuse protection:

Internal fuse	T 2 A / 250 VAC
External fuse (recommended)	Circuit breakers 6 A, 10 A, 16 A, characteristic: B or C

Safety and protection:

Isolation voltage (input/output)	4.242 kV (DC)
Test voltage	4.2 kV DC (input – output)
Protection class	II
Degree of protection	IP20 (per EN 60529)
Feedback voltage	$\leq 60 \text{ VDC}$
transient protection, primary	Varistor
Overvoltage protection, secondary	Internal protective VDCe circuit $\leq 29 \dots 31 \text{ VDC}$ (in case of an error)
Short circuit protection	Yes
No-load proof	Yes
Parallel operation	Yes, for 2 devices of the same type
Series connection	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 terminal	picoMAX® 5.0
Solid conductor	0.2 ... 2.5 mm² / 24 ... 10 AWG
Fine-stranded conductor	0.2 ... 2.5 mm² / 24 ... 10 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 Inch

Geometrical Data

Width	22.5 mm / 0.886 Inch
Height	107 mm / 4.213 Inch
Depth	105 mm / 4.122 Inch
Length from upper-edge of DIN-35 rail	105 mm / 4.122 Inch



Mechanical data

Type of mounting	DIN-35 rail (EN 60715)
Degree of protection	IP20 (per EN 60529)

Material Data

Weight	1.111 g
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Environmental Requirements

Surrounding air (operating) temperature	-25 ... 70 °C
Surrounding air (storage) temperature	-25 ... 85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	-2 %/K (> 60 °C)
Pollution degree	2
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; UL 60950*; cULus 508*; ANSI-ISA 12.12.01 (Class I Div 2)*; ATEX/IEC Ex*; DNV GL (*pending)

Commercial data

Packaging type	BOX
Country of origin	DE
GTIN	4055143295529
Customs Tariff No.	85044082900

Ship Approvals

Logo	Approval	Certificate name
	DNV GL Det Norske Veritas, Germanischer Lloyd	TAA0000154



Product family

EPSITRON Power for JUMPFLEX

Show all products from the family.

Subject to changes.

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