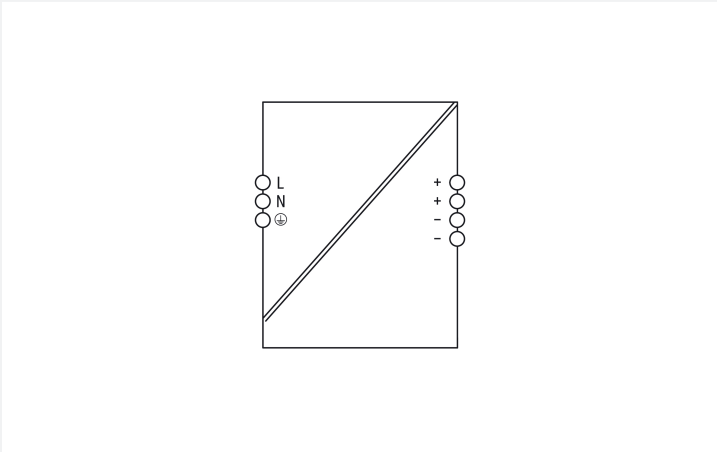
Data Sheet | Item Number: 2587-2146

Switched-mode power supply; Base; 1-phase; 24 VDC output voltage; 10 A output current; DC-OK LED

https://www.wago.com/2587-2146



Similar to illustration

Features:

- Visual status indicator
- Suitable for parallel and series operation
- Self-cooling via natural convection in horizontal mounting position
- Connection technology with push-in termination
- Electrically isolated output voltage (SELV) per EN 62368-1/UL 61010-1

Technical data

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 90 … 264 VAC (Derating -1 %/V for voltage < 100 VAC)
Nominal mains frequency range	47 Hz / 63 Hz
Input current I_i	≤ 3.5 A
Inrush current	≤ 15 A (at 230 VAC / 25 °C)
Power factor	≥ 0.98 (115 VAC); ≥ 0.94 (230 VAC)
Power factor correction (PFC)	Active

Input	
Mains failure hold-up time	≥ 22 ms (230 VAC)

Output

Nominal output voltage $U_{o\ nom}$	24 VDC (SELV)
Output voltage range	23.5 … 28 VDC (adjustable)
Default Setting	24 VDC
Nominal output current $I_{o\ nom}$	10 A (24 VDC)
Leakage current at rated voltage	≤ 124 µA
Nominal output power	240 W
Deviation	≤ 1 %
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Shutdown and automatic restart in the event of a short circuit

Signaling and Communication

Signaling	Optical status indication (DC OK)

Efficiency/Power Losses

Power loss P_l	≤ 5 W (230 VAC; no load); ≤ 24.6 W (230 VAC; nominal load)
Efficiency (typ.)	91 %

Safety and protection

Isolation voltage (pri.-sec., AC)	3510 V
Isolation voltage (pri.-PE, AC)	2210 V
Protection class	I
Protection type	IP20; per EN 60529
Overvoltage category	III (≤ 2000 m); II (> 2000 m)
Pollution degree	2
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	> 1,000,000 h (at 25 °C; per IEC 61709; SN 29500)

Connection Data

Connection 1

Connection type	Input/output
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 2624 Series
Solid conductor	0.2 … 6 mm² / 24 … 10 AWG
Fine-stranded conductor	0.2 … 6 mm² / 24 … 10 AWG
Fine-stranded conductor; with insulated ferrule	0.25 … 2.5 mm²
Fine-stranded conductor; with uninsulated ferrule	0.25 … 2.5 mm²
Strip length	10 … 12 mm / 0.39 … 0.47 inches

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Physical data

Width	52 mm / 2.05 inches
Height	125 mm / 4.92 inches
Depth from upper-edge of DIN-rail	110 mm / 4.33 inches

Mechanical data

Mounting type	DIN-35 rail

Material data

Weight	752 g

Environmental requirements

Ambient temperature (operation)	-30 … +70 °C (Device starts at -40 °C (type-tested))
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-4.8 W/°C (> 45 °C and < 200 V); -4.8 W/°C (> 50 °C and ≥ 200 V)
Climatic category	3K3 (per EN 60721)
Operating altitude (max.)	5000 m

Standards and Specifications

Conformity marking	CE
Standards/specifications	EN 62368-1 EN 55032 EN 55035 EN IEC 61000-3-2 EN 61000-3-3 EN IEC 61000-6-4 EN IEC 61000-6-2 UL 61010-1 UL 61010-2-201 SEMI F47 EN 61558-2-16

Commercial data

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4066966626490
Customs tariff number	85044083900

Product Classification

UNSPSC	39121004
ETIM 9.0	EC002540
ETIM 10.0	EC002540
ECCN	NO US CLASSIFICATION

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Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals

Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc.	UL 61010-2-201	E255817

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
MFD for SEMI F47 WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2587-2146

Documentation

Bid Text

2587-2146	14.04.2025	docx 45.15 KB	
2587-2146	14.04.2025	x81 7.13 KB	

Instruction Leaflet

Power Supply BASE	V 4.0.0 28.08.2025	pdf 734.73 KB	

CAD/CAE-Data

CAD data

2D/3D Models 2587-2146

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1 Compatible Products

1.1 Optional Accessories

1.1.1 General accessories

1.1.1.1 Electronic circuit breaker

Item No.: 787-3664
Electronic circuit breaker; 4-channel; 24 VDC input voltage; adjustable 1 ... 10 A; Signal contact

Item No.: 787-3668
Electronic circuit breaker; 8-channel; 24 VDC input voltage; adjustable 1 ... 10 A; Signal contact

1.1.2 Tool

1.1.2.1 Operating tool

Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

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

Item No.: 210-721
Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured