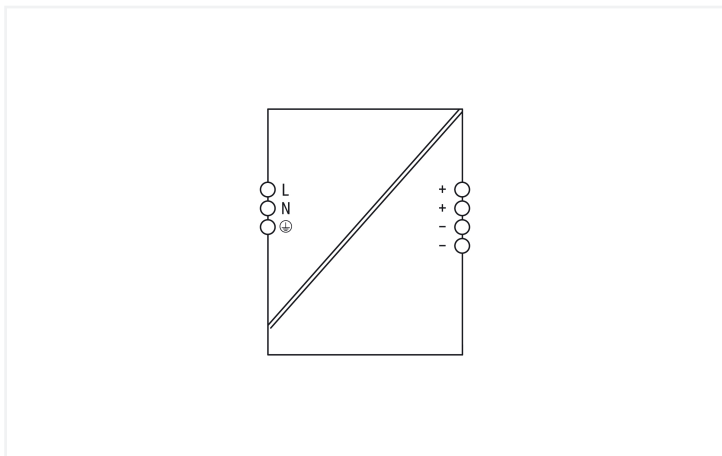


# Data Sheet | Item Number: 2587-2147

Switched-mode power supply; Base; 1-phase; 24 VDC output voltage; 20 A output current; DC-OK LED

<https://www.wago.com/2587-2147>



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	50 Hz / 60 Hz
Input current $I_i$	≤ 7 A
Inrush current	≤ 20 A (at 230 VAC / 25 °C)
Power factor	≥ 0.98 (230 VAC)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 16 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 $I_{o, nom}$	20 A
Nominal output power	480 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)
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## Efficiency/Power Losses

Power loss $P_i$	≤ 5 W (no load); ≤ 32.5 W (Full load)
Efficiency (typ.)	94 %

## Circuit Protection

Internal fuse	T 8 A / 250 V
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## 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
Series operation	Yes
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 2626 Series
Solid conductor	0.2 ... 10 mm <sup>2</sup> / 24 ... 8 AWG
Fine-stranded conductor	0.2 ... 10 mm <sup>2</sup> / 24 ... 8 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 6 mm <sup>2</sup>
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 6 mm <sup>2</sup>
Strip length	13 ... 15 mm / 0.51 ... 0.59 inches

### Physical data

Width	56 mm / 2.2 inches
Height	125 mm / 4.92 inches
Depth from upper-edge of DIN-rail	138 mm / 5.43 inches

### Mechanical data

Mounting type	DIN-35 rail
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### Material data

Fire load	0 MJ
Weight	1149 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	-9.6 W/°C (> 45 °C and < 200 V); -9.6 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	4066966626698
Customs tariff number	85044083900

### Product Classification

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

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 Confor- mity WAGO GmbH & Co. KG	-	-
MFD for SEMI F47 WAGO GmbH & Co. KG	-	-
UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

### Downloads

#### Environmental Product Compliance

Compliance Search	
Environmental Product Compliance 2587-2147	<a href="#">↓</a>

### Documentation

Bid Text			
2587-2147	14.04.2025	docx 45.37 KB	<a href="#">↓</a>
2587-2147	14.04.2025	x81 7.24 KB	<a href="#">↓</a>

Instruction Leaflet			
Power Supply BASE	V 4.0.0 28.08.2025	pdf 735.94 KB	<a href="#">↓</a>

### CAD/CAE-Data

CAD data	
2D/3D Models 2587-2147	<a href="#">↓</a>

## 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