# 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

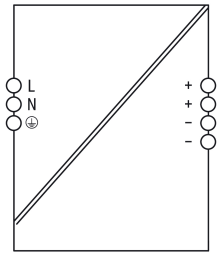











Similar to illustration

**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 | 47 Hz / 63 Hz |
| Input current $I_i$ | ≤ 7 A |
| Inrush current | ≤ 20 A (at 230 VAC / 25 °C) |
| Power factor | ≥ 0.99 (115 VAC); ≥ 0.99 (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 (24 VDC) |
| Leakage current at rated voltage | ≤ 376 µA |
| 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) |

### Efficiency/Power Losses

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

### Circuit Protection

| | |
|---|---|
| Internal fuse | T 8 A / 250 V |

## 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 2626 Series |
| Solid conductor | 0.2 … 10 mm² / 24 … 8 AWG |
| Fine-stranded conductor | 0.2 … 10 mm² / 24 … 8 AWG |
| Fine-stranded conductor; with insulated ferrule | 0.25 … 6 mm² |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 … 6 mm² |
| Strip length | 13 … 15 mm / 0.51 … 0.59 inches |


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## Physical data

| | |
|---|---|
| Width | 56 mm / 2.2 inches |
| Height | 125 mm / 4.92 inches |
| Depth from upper-edge of DIN-rail | 129 mm / 5.08 inches |

## Mechanical data

| | |
|---|---|
| Mounting type | DIN-35 rail |

## Material data

| | |
|---|---|
| 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<br>EN 55032<br>EN 55035<br>EN IEC 61000-3-2<br>EN 61000-3-3<br>EN IEC 61000-6-4<br>EN IEC 61000-6-2<br>UL 61010-1<br>UL 61010-2-201<br>SEMI F47<br>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 |


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## Environmental Product Compliance

| | |
|---|---|
| RoHS Compliance Status | Compliant,No Exemption |

## Approvals / Certificates

### General approvals

| Approval | Standard | Certificate Name |
|---|---|---|
| UL<br>Underwriters Laboratories Inc. | UL 61010-2-201 | E255817 |

### Declarations of conformity and manufacturer's declarations

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

## Downloads

### Environmental Product Compliance

**Compliance Search**

Environmental Product Compliance 2587-2147

### Documentation

**Bid Text**

| | | | |
|---|---|---|---|
| 2587-2147 | 14.04.2025 | docx<br>45.37 KB | |
| 2587-2147 | 14.04.2025 | x81<br>7.24 KB | |

**Instruction Leaflet**

| | | | |
|---|---|---|---|
| Power Supply BASE | V 4.0.0<br>28.08.2025 | pdf<br>735.94 KB | |

### CAD/CAE-Data

**CAD data**

2D/3D Models 2587-2147


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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