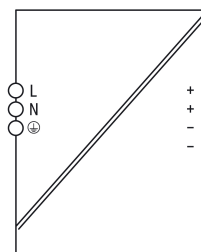


**Data Sheet | Item Number: 2587-2146**

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 $U_{i\text{nom}}$ | 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    | $\leq 124\,\mu A$                                              |
| Nominal output power                | 240 W                                                          |
| Deviation                           | $\leq 1\,\%$                                                   |
| Residual ripple                     | $\leq 100\,mV$ (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 $P_l$        | $\leq 5\,W$ (230 VAC; no load); $\leq 24.6\,W$ (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 ( $\leq 2000\,m$ ); 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 mm <sup>2</sup> / 24 ... 10 AWG |
| Fine-stranded conductor                           | 0.2 ... 6 mm <sup>2</sup> / 24 ... 10 AWG |
| Fine-stranded conductor; with insulated ferrule   | 0.25 ... 2.5 mm <sup>2</sup>              |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 2.5 mm <sup>2</sup>              |
| Strip length                                      | 10 ... 12 mm / 0.39 ... 0.47 inches       |



| 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<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                  |  | 4066966626490 |
| 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                                                                |                |                  | Declarations of conformity and manufacturer's declarations |          |                  |
|----------------------------------------------------------------------------------|----------------|------------------|------------------------------------------------------------|----------|------------------|
|  |                |                  |                                                            |          |                  |
| Approval                                                                         | Standard       | Certificate Name | Approval                                                   | Standard | Certificate Name |
| UL                                                                               | UL 61010-2-201 | E255817          | EU-Declaration of Conformity                               | -        | -                |
| Underwriters Laboratories Inc.                                                   |                |                  | 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  |            |      |                                                                                     | Instruction Leaflet |            |           |                                                                                       |
|-----------|------------|------|-------------------------------------------------------------------------------------|---------------------|------------|-----------|---------------------------------------------------------------------------------------|
| 2587-2146 | 14.04.2025 | docx | 45.15 KB                                                                            | Power Supply BASE   | V 4.0.0    | pdf       |                                                                                       |
|           |            |      |  |                     | 28.08.2025 | 734.73 KB |  |
| 2587-2146 | 14.04.2025 | x81  | 7.13 KB                                                                             |                     |            |           |                                                                                       |
|           |            |      |  |                     |            |           |                                                                                       |

CAD/CAE-Data

| CAD data     |                                                                                     |
|--------------|-------------------------------------------------------------------------------------|
| 2D/3D Models |                                                                                     |
| 2587-2146    |  |



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