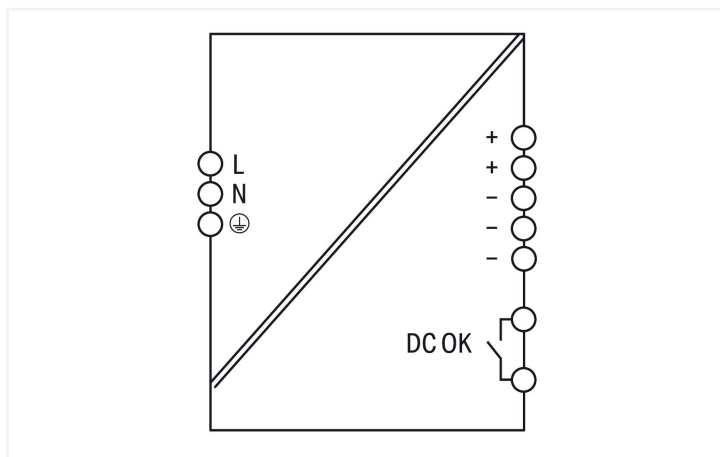


# Data Sheet | Item Number: 2687-2146

Power supply; Eco 2; 1-phase; 24 VDC output voltage; 10 A output current; DC OK contact

<https://www.wago.com/2687-2146>



## Features:

- Signal output, optical status indication
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Connection technology with push-in termination and tool-free lever operation
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot (2789-1233, not included) for WAGO marking cards (WMB) and WAGO marking strips

## Technical data

| Input                              |  | Output                              |  |
|------------------------------------|--|-------------------------------------|--|
| Phases                             | 1  | Nominal output voltage $U_{o, nom}$ | DC 24 V (SELV)   |
| Nominal input voltage $U_{i, nom}$ | 1 x AC 100 ... 240 V   | Output voltage range                | DC 23 ... 28 V (adjustable)  |
| Input voltage range                | 1 x AC 90 ... 264 V  | Default Setting                     | DC 24 V  |
| Nominal mains frequency range      | 50 ... 60 Hz; 0 Hz   | Nominal output current $I_{o, nom}$ | 10 A (24 VDC)  |
| Input current $I_i$                | $\leq 1.1$ A (230 VAC; nominal load); $\leq 2.7$ A (100 VAC; nominal load) | Nominal output power                | 240 W  |
| Inrush current                     | $\leq 25$ A (after 1 ms)   | Deviation                           | $\leq 1$ %   |
| Power factor correction (PFC)      | Active   | Residual ripple                     | $\leq 75$ mV (peak-to-peak)  |
| Mains failure hold-up time         | $\geq 25$ ms (230 VAC)   | Overload behavior                   | Constant current up to 105 ... 110 %; shutdown and automatic restart in the event of a short circuit |

## Signaling and communication

|           |   |
|-----------|---|
| Signaling | Optical status indication (overload)<br>Optical status indication (DC OK)<br>Digital signal output (DO) |
|-----------|---|

## Efficiency/power losses

|                   |  |
|-------------------|--|
| Power loss $P_I$  | $\leq 3$ W (230 VAC; no load); $\leq 13$ W (230 VAC; nominal load) |
| Efficiency (typ.) | 93 %   |

## Circuit protection

|               |                   |
|---------------|-------------------|
| Internal fuse | T 6.3 A / 250 VAC |
|---------------|-------------------|

## Safety and protection

|                                   |  |
|-----------------------------------|--|
| Isolation voltage (pri.-sec., AC) | 3510 V   |
| Isolation voltage (pri.-PE, AC)   | 2200 V   |
| Isolation voltage (sec.-PE)       | DC 0.5 kV  |
| Isolation voltage (sec.-signal)   | DC 0.5 kV  |
| Protection class                  | I  |
| Protection type                   | IP20; per EN 60529                                   |
| Overvoltage category              | III ( $\leq 2000$ m a.s.l.); II ( $> 2000$ m a.s.l.) |
| Pollution degree                  | 2  |
| Short-circuit-protected           | Yes  |
| Open-circuit-proof                | Yes  |
| Parallel operation                | Yes  |
| Series operation                  | Yes  |
| MTBF                              | $> 1,000,000$ h (per IEC 61709)                      |

## Connection data

|                         |   |
|-------------------------|---|
| Connection type 1       | Input/output/signaling                    |
| Connection technology   | Push-in CAGE CLAMP®                       |
| Solid conductor         | 0.2 ... 4 mm <sup>2</sup> / 24 ... 12 AWG |
| Fine-stranded conductor | 0.2 ... 4 mm <sup>2</sup> / 24 ... 12 AWG |

### Physical data

|                                   |                       |
|-----------------------------------|-----------------------|
| Width                             | 50 mm / 1.97 inches   |
| Height                            | 130 mm / 5.118 inches |
| Depth from upper-edge of DIN-rail | 130 mm / 5.118 inches |

### Mechanical data

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

### Material data

|           |       |
|-----------|-------|
| Fire load | 0 MJ  |
| Weight    | 800 g |

### Environmental requirements

|                                 |  |
|---------------------------------|--|
| Ambient temperature (operation) | -25 ... +70 °C (Device starts at -40 °C (type-tested)) |
| Ambient temperature (storage)   | -40 ... +85 °C   |
| Relative humidity               | 5 ... 96 % (no condensation permissible)               |
| Derating                        | -3 %/K (> 45 °C)                                       |
| Climatic category               | 3K3 (per EN 60721)                                     |
| Operating altitude (max.)       | 5000 m   |

### Standards and specifications

|                          |  |
|--------------------------|--|
| Conformity marking       | CE   |
| Standards/specifications | EN 61010-1<br>EN 61010-2-201<br>EN 61204-3<br>UL 61010-1<br>UL 61010-2-201 |

### Commercial data

|                       |               |
|-----------------------|---------------|
| ETIM 9.0              | EC002540      |
| ETIM 8.0              | EC002540      |
| PU (SPU)              | 1 pcs         |
| Packaging type        | Box           |
| Country of origin     | CN            |
| GTIN                  | 4066966342451 |
| Customs tariff number | 85044083900   |

### Environmental Product Compliance

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

Approvals / Certificates

General approvals



| Approval                   | Standard       | Certificate Name |
|----------------------------|----------------|------------------|
| EAC<br>GZO Almaty Standart | TP TC 004/2011 | EAC CoC 03080    |
| EAC<br>GZO Almaty Standart | TP TC 020/2011 | EAC CoC 03081    |

Declarations of conformity and manufacturer's declarations

| Approval  | Standard | Certificate Name |
|---|----------|------------------|
| EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG | -        | -                |
| UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG | -        | -                |

Downloads

Environmental Product Compliance

Compliance Search

|   |                   |
|---|-------------------|
| Environmental Product<br>Compliance 2687-2146 | <a href="#">↓</a> |
|---|-------------------|

Documentation

| Manual   |                       |                   |                   |
|--|-----------------------|-------------------|-------------------|
| Power supply; Eco 2; 1-<br>phase; 24 VDC output<br>voltage; 10 A output<br>current | V 1.1.0<br>19.03.2024 | pdf<br>4686.20 KB | <a href="#">↓</a> |

| Bid Text  |  |                  |                   |
|-----------|--|------------------|-------------------|
| 2687-2146 |  | xml<br>7.29 KB   | <a href="#">↓</a> |
| 2687-2146 |  | docx<br>29.98 KB | <a href="#">↓</a> |

Instruction Leaflet

|                     |                       |                   |                   |
|---------------------|-----------------------|-------------------|-------------------|
| Power Supply; Eco 2 | V 1.0.0<br>02.02.2023 | pdf<br>2308.20 KB | <a href="#">↓</a> |
|---------------------|-----------------------|-------------------|-------------------|

CAD/CAE-Data

| CAD data                  |                   |
|---------------------------|-------------------|
| 2D/3D Models<br>2687-2146 | <a href="#">↓</a> |

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Marking

##### 1.1.1.1 Marker carrier



**Item No.: 2789-1233**

Marker carrier; for WMB or marking strips;  
Length: 33 mm