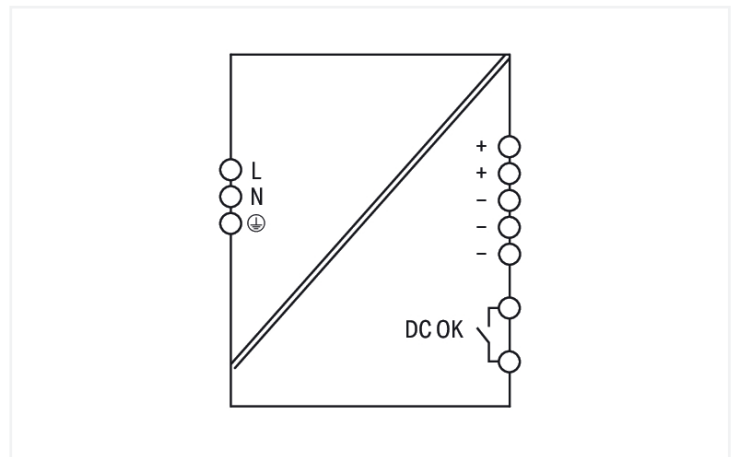


# Data Sheet | Item Number: 2687-2146

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 $U_{o\text{nom}}$	DC 24 V (SELV)
Nominal input voltage $U_{i\text{nom}}$	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 $I_{o\text{nom}}$	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) Optical status indication (DC OK) Digital signal output (DO)
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## 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
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## 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

## 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
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### 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 EN 61010-2-201 EN 61204-3 UL 61010-1 UL 61010-2-201

### Commercial data

PU (SPU)	1 pcs
Country of origin	CN
GTIN	4066966342451
Customs tariff number	85044083900

### Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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### Approvals / Certificates

#### Declarations of conformity and manufacturer's declarations

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

**Downloads**

**Environmental Product Compliance**

**Compliance Search**

Environmental Product Compliance 2687-2146



**Documentation**

**Bid Text**

2687-2146	xml 7.29 KB	
2687-2146	docx 29.98 KB	

**Instruction Leaflet**

Power Supply; Eco 2	V 1.0.0 02.02.2023	pdf 2308.20 KB	
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**CAD/CAE-Data**

**CAD data**

2D/3D Models 2687-2146	
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**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