

## Data Sheet | Item Number: 2687-2142

Power supply; Eco 2; 1-phase; 24 VDC output voltage; 1.25 A output current; DC-OK LED

<https://www.wago.com/2687-2142>



### Features:

- 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 (2789-1223, not included) for WAGO marking cards (WMB) and WAGO marking strips

### Technical data

## Input

Phases	1
Nominal input voltage $U_{i\text{nom}}$	1 x AC 100 ... 240 V
Input voltage range	1 x AC 90 ... 264 V
Nominal mains frequency range	50 ... 60 Hz
Input current $I_i$	$\leq 0.3$ A (230 VAC; nominal load); $\leq 0.6$ A (100 VAC; nominal load)
Inrush current	$\leq 10$ A (after 1 ms)
Power factor correction (PFC)	passive
Mains failure hold-up time	$\geq 120$ ms (230 VAC); $\geq 15$ ms (110 VAC)

## Output

Nominal output voltage $U_{o\text{nom}}$	DC 24 V (SELV)
Output voltage range	DC 22 ... 29 V (adjustable)
Default setting	DC 24 V
Nominal output current $I_{o\text{nom}}$	1.25 A (24 VDC)
Nominal output power	30 W
Deviation	$\leq 1$ %
Residual ripple	$\leq 30$ mV (peak-to-peak, at 230 VAC)
Overload behavior	Constant power up to 125 %; shutdown and automatic restart in the event of a short circuit

## Signaling and communication

Signaling	1 x LED DC OK (green)
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## Efficiency/power losses

Power loss $P_i$	$\leq 0.2$ W (no load); $\leq 4.3$ W (nominal load)
Efficiency (typ.)	88 %

## Circuit protection

Internal fuse	T 1 A / 250 VAC
Backup fusing (recommended)	16 A (for USA/Canada: 15 A)

## Safety and protection

Isolation voltage (pri.-sec., AC)	3510 V
Protection class	II
Protection type	IP20; per EN 60529
Resistance to reverse feed	$\leq$ DC 35 V
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
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	25 mm / 0.984 inches
Height	100 mm / 3.937 inches
Depth from upper-edge of DIN-rail	100 mm / 3.937 inches

**Mechanical data**

Mounting type	DIN-35 rail
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**Material data**

Fire load	0 MJ
Weight	160 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	See type label/manual
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 SEMI F47

**Commercial data**

ETIM 8.0	EC002540
ETIM 7.0	EC002540
PU (SPU)	1 pcs
Country of origin	CN
GTIN	4066966156492
Customs tariff number	85044083900