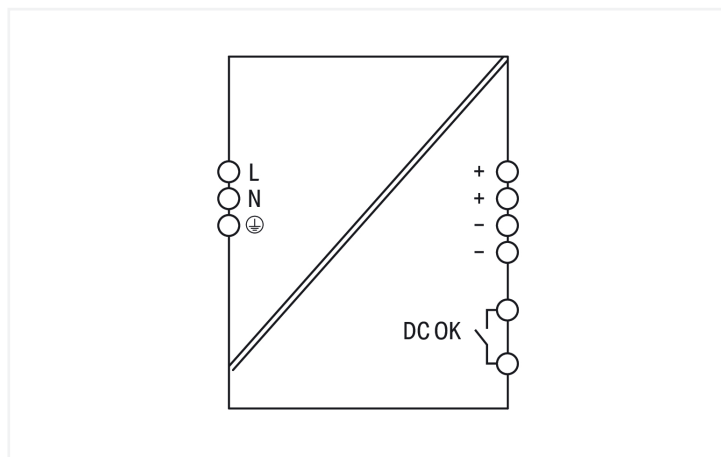


# Data Sheet | Item Number: 2687-2144

Power supply; Eco 2; 1-phase; 24 VDC output voltage; 5 A output current; DC OK contact

<https://www.wago.com/2687-2144>



## 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

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; 0 Hz
Input current $I_i$	$\leq 0.8$ A (230 VAC; nominal load); $\leq 1.5$ A (100 VAC; nominal load)
Inrush current	$\leq 20$ A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	$\geq 20$ ms (230 VAC)

### Output

Nominal output voltage $U_{o, \text{nom}}$	DC 24 V (SELV)
Output voltage range	DC 23 ... 28 V (adjustable)
Default Setting	DC 24 V
Nominal output current $I_{o, \text{nom}}$	5 A (24 VDC)
Nominal output power	120 W
Deviation	$\leq 1$ %
Residual ripple	$\leq 75$ mV (peak-to-peak)
Overload behavior	Constant power up to 125 %; 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; $\leq 12$ W (nominal load)
Efficiency (typ.)	90 %

## Circuit protection

Internal fuse	T 3.15 A / 250 VAC
Backup fusing (recommended)	16 A (for USA/Canada: 15 A)

## 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
Overtoltage 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	No
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	38 mm / 1.496 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	620 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	-2.5 %/K, > 55 °C; -10 %/V, > 24 V
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 SEMI F47

### Commercial data

ETIM 9.0	EC002540
ETIM 8.0	EC002540
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4066966401080
Customs tariff number	85044083900

### Environmental Product Compliance

CAS-No.	1303-86-2 1317-36-8 7439-92-1 79-94-7
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol Diboron trioxide Lead Lead monoxide
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	88b095ec-76a2-44ba-bc4f-8af04d3aa869
SCIP notification number (Belgium)	1f36d4b5-c2bd-4fa4-9ba7-fab4560274ea
SCIP notification number (Bulgaria)	ece2741c-94c2-4643-8455-4af30ed67835
SCIP notification number (Czech Republic)	cd95343d-b393-43cf-80b0-cccb5257bbfd

**Environmental Product Compliance**

SCIP notification number (Denmark)	8de2a84b-c12a-4761-91dd-b119773534c8
SCIP notification number (Finland)	37dca7ef-68a8-4237-96ee-ffc69fca1b79
SCIP notification number (France)	be625ff9-61f8-44cb-a1b4-9c91e7ab498f
SCIP notification number (Germany)	Of1a79bc-42ce-497c-93aa-169b84dec80a
SCIP notification number (Hungary)	c75d9660-e9e0-4f6a-8094-a02f7eb002c5
SCIP notification number (Italy)	4058ebcb-e5d3-4e13-8a2c-bb034a513773
SCIP notification number (Netherlands)	e09550f1-21a2-4612-b815-cd116bb56de2
SCIP notification number (Poland)	42928b5b-13e1-44dc-bfe4-9af43f5d13b6
SCIP notification number (Romania)	42dd0d9d-70ff-4898-aa20-05f92774b9fb
SCIP notification number (Sweden)	d048877f-4660-48fa-8533-a6cfed8010d2

**Approvals / Certificates**

**General approvals**

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



Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 004/2011	EAC CoC 03080
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081
UL Underwriters Laboratories Inc.	UL 61010-2-201	UL-US-2218925-0_UL-CA-2218432-0

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

**Approvals for hazardous areas**



Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726

**Downloads**

**Environmental Product Compliance**

Compliance Search
Environmental Product Compliance 2687-2144

## Documentation

### Manual

Power supply; Eco 2; 1-phase; 24 VDC output voltage; 5 A output current	V 1.1.1 19.03.2024	pdf 4627.56 KB	<a href="#">↓</a>
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### Bid Text

2687-2144	xml 7.26 KB	<a href="#">↓</a>
2687-2144	docx 29.77 KB	<a href="#">↓</a>

### Instruction Leaflet

Power supply; Eco 2	V 1.3.0 08.11.2022	pdf 2307.76 KB	<a href="#">↓</a>
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## CAD/CAE-Data

### CAD data

2D/3D Models 2687-2144	<a href="#">↓</a>
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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