Data Sheet | Item Number: 2687-2143

Power supply; Eco 2; 1-phase; 24 VDC output voltage; 2.5 A output current; DC-OK LED

https://www.wago.com/2687-2143

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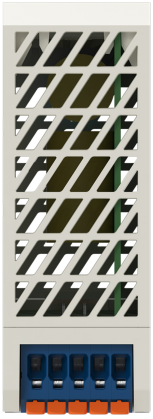

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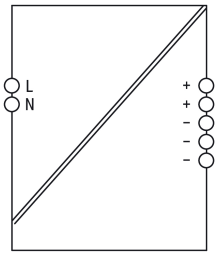

Features:

- Visual status indicator
- Suitable for parallel and series operation
- Self-cooling via natural convection in horizontal mounting position

- Connection technology with push-in termination and tool-free lever operation
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot (Item No. 2789-1233, not included) for WAGO marking cards (WMB) and marking strips

Technical data

Input

Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 90 … 264 VAC
Nominal mains frequency range	50 … 60 Hz
Input current I_i	≤ 0.5 A (230 VAC; nominal load); ≤ 1.1 A (100 VAC; nominal load)
Inrush current	≤ 20 A (after 1 ms)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 130 ms (230 VAC); ≥ 23 ms (110 VAC)

Output

Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 … 29 VDC (adjustable)
Default Setting	24 VDC
Nominal output current $I_{o\,nom}$	2.5 A (24 VDC)
Nominal output power	60 W
Deviation	≤ 1 %
Residual ripple	≤ 20 mV (Peak-to-peak, at 230 VAC)
Overload behavior	Constant power up to 130 %; shutdown and automatic restart in the event of a short circuit

Signaling and Communication

Signaling	1 x DC OK LED (green)

Efficiency/Power Losses

Power loss P_l	≤ 0.1 W (no load); ≤ 6 W (nominal load)
Efficiency (typ.)	90.5 %

Circuit Protection

Internal fuse	T 2 A / 250 VAC
Backup fuse (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	≤ 35 VDC
Overvoltage category	III (≤ 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	> 1,100,000 h

Connection Data

Connection 1

Connection type	Input/output
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 2604 Series
Solid conductor	0.2 … 4 mm² / 24 … 12 AWG
Fine-stranded conductor	0.2 … 4 mm² / 24 … 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 … 2.5 mm²
Fine-stranded conductor; with uninsulated ferrule	0.25 … 2.5 mm²
Strip length	9 … 11 mm / 0.35 … 0.43 inches

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Physical data

Width	35 mm / 1.378 inches
Height	100 mm / 3.937 inches
Depth from upper-edge of DIN-rail	90 mm / 3.54 inches

Mechanical data

Mounting type	DIN-35 rail

Material data

Weight	250 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	-1.5 %/K (> 55 °C)
Climatic category	3K3 (per EN 60721)
Operating altitude (max.)	5000 m

Standards and Specifications

Conformity marking	CE; UKCA
Standards/specifications	EN 61010-1 EN 61010-2-201 EN 61204-3 UL 61010-1 UL 61010-2-201 SEMI F47 UL 121201 (HazLoc)

Commercial data

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4066966480061
Customs tariff number	85044083900

Product Classification

UNSPSC	39121004
ETIM 9.0	EC002540
ETIM 10.0	EC002540
ECCN	NO US CLASSIFICATION

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Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption
SCIP notification number (Austria)	e017187f-9e94-48f1-87d8-dd2bb4c80249
SCIP notification number (Belgium)	48b90fd9-af9e-42fb-9817-40509f3746fc
SCIP notification number (Bulgaria)	be1e41b3-a542-4051-9b85-652f2f6d1a4d
SCIP notification number (Czech Republic)	23e57abf-4f13-4729-8ee6-037120462b0b
SCIP notification number (Denmark)	ce5521f3-89fa-46ed-b119-44241bcbb9da
SCIP notification number (Finland)	af0ac358-7114-4f8c-8e4a-39cfc778c6d1
SCIP notification number (France)	7059bd10-bc24-4622-b9a7-52edb8b6ac4f
SCIP notification number (Germany)	15c620d6-5799-4bbb-8261-2cd43fe6fae6
SCIP notification number (Hungary)	f5d0f531-abaa-4b3f-aae9-38875074b6c5
SCIP notification number (Italy)	fb3cb27a-d888-4690-83cc-95d6d15b4906
SCIP notification number (Netherlands)	a0188a42-c999-4daa-9d0d-92c37e10b6a3
SCIP notification number (Poland)	14ad6c5a-05de-4056-beeb-51cd36b95272
SCIP notification number (Romania)	596802ac-d363-4a11-95de-76252c1e49d6
SCIP notification number (Sweden)	4dc8b222-ea9a-4c84-82fa-83702da0254b

Approvals / Certificates

General approvals

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_E255817

Approvals for hazardous areas

Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	UL_E198726

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	-	-

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Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2687-2143	

Documentation

Manual

Product Manual Power supply unit; Eco 2; 1-phase; 24 VDC output voltage; 2.5 A output current	V 1.0.0 19.03.2024	pdf 6561.51 KB	

Bid Text

2687-2143	14.04.2025	docx 39.01 KB	
2687-2143	14.04.2025	x81 7.64 KB	

Instruction Leaflet

Stromversorgung; Eco 2	V 1.0.0 10.10.2023	pdf 2364.21 KB	

CAD/CAE-Data

CAD data

2D/3D Models 2687-2143	