

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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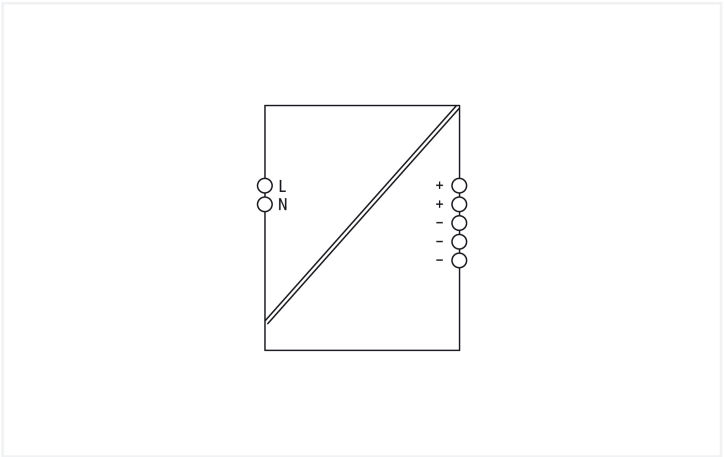
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Features:

- 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		Output	
Phases	1	Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Nominal input voltage $U_{i\,nom}$	1 x 100 ... 240 VAC	Output voltage range	22 ... 29 VDC (adjustable)
Input voltage range	1 x 90 ... 264 VAC	Default Setting	24 VDC
Nominal mains frequency range	50 ... 60 Hz	Nominal output current $I_{o\,nom}$	2.5 A (24 VDC)
Input current I_i	≤ 0.5 A (230 VAC; nominal load); ≤ 1.1 A (100 VAC; nominal load)	Nominal output power	60 W
Inrush current	≤ 20 A (after 1 ms)	Deviation	≤ 1 %
Power factor correction (PFC)	Passive	Residual ripple	≤ 20 mV (Peak-to-peak, at 230 VAC)
Mains failure hold-up time	≥ 130 ms (230 VAC); ≥ 23 ms (110 VAC)	Overload behavior	Constant power up to 130 %; shutdown and automatic restart in the event of a short circuit

Signaling and Communication		Efficiency/Power Losses	
Signaling	1 x DC OK LED (green)	Power loss P_i	≤ 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



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

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		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_E255817
		Approval
		EU-Declaration of Conformity 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	UL_E198726

Compliance Search

Environmental Product
Compliance 2687-2143

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	

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

Stromversorgung; Eco 2	V 1.0.0 10.10.2023	pdf 2364.21 KB	
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CAD data
2D/3D Models
2687-2143