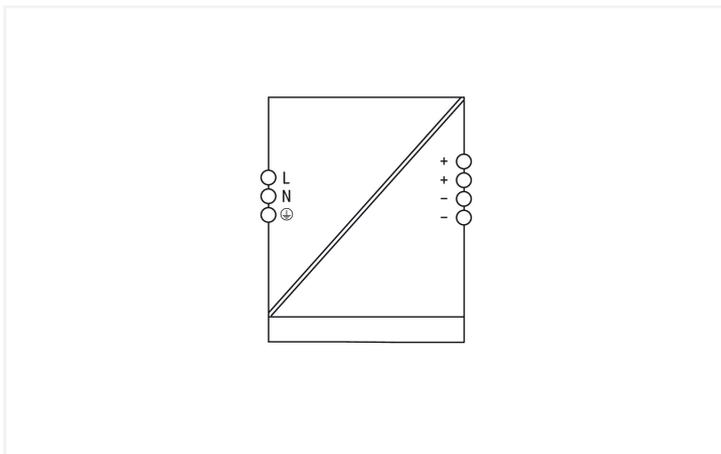


Data Sheet | Item Number: 2587-2148

Switched-mode power supply; Base; 1-phase; 24 VDC output voltage; 40 A output current; DC-OK LED

<https://www.wago.com/2587-2148>



Features:

- Optical status indication
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Connection technology with push-in termination
- Electrically isolated output voltage (SELV) per EN 61010-2-201/UL 61010-2-201

Technical data

Input

Phases	1
Nominal input voltage $U_{i, \text{nom}}$	1 x 100 ... 240 VAC
Input voltage range	1 x 90 ... 264 VAC
Nominal mains frequency range	50 ... 60 Hz
Input current I_i	≤ 12 A (100 VAC; nominal load)
Inrush current	≤ 15 A (at 230 VAC / 25 °C)
Power factor	≥ 0.98 (230 VAC)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (230 VAC)

Output

Nominal output voltage $U_{o, \text{nom}}$	24 VDC (SELV)
Output voltage range	23.5 ... 28 VDC
Default Setting	24 VDC
Nominal output current $I_{o, \text{nom}}$	40 A (24 VDC)
Nominal output power	960 W
Deviation	≤ 3 %
Load regulation	≤ 1 %
Residual ripple	≤ 80 mV (peak-to-peak)
Overload behavior	Constant power up to 150%; short-circuit shutdown with automatic restart

Signaling and Communication

Signaling	Optical status indication (DC OK, green LED)
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Efficiency/Power Losses

Power loss P_i	≤ 4 W (no load); ≤ 118 W (115 VAC; nominal load); ≤ 73 W (230 VAC; nominal load)
Efficiency (typ.)	93 % (230 VAC; nominal load)

Circuit Protection

Internal fuse	F 15 Ah / 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)	0.5 kVDC
Protection class	I
Protection type	IP20
Reverse voltage protection	Yes
Resistance to reverse feed	≤ 35 VDC
Overvoltage category	III (≤ 2000 m); II (≤ 5000 m)
Pollution degree	2
Transient suppression (primary)	Yes
Overvoltage protection; secondary	≤ 35 VDC (in the event of a fault)
Short-circuit-protected	Yes
Open-circuit-proof	Yes
MTBF	$> 1,000,000$ h (at 25 °C; per IEC 61709; SN 29500)

Connection Data

Connection 1

Connection type	Input
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 2626 Series
Solid conductor	0.2 ... 10 mm ² / 24 ... 8 AWG
Fine-stranded conductor	0.2 ... 10 mm ² / 24 ... 8 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 6 mm ²
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 6 mm ²
Strip length	13 ... 15 mm / 0.51 ... 0.59 inches

Connection 2

Connection type	Output
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 2626 Series
Solid conductor	0.2 ... 10 mm ² / 24 ... 8 AWG
Fine-stranded conductor	0.2 ... 10 mm ² / 24 ... 8 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 6 mm ²
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 6 mm ²
Strip length	13 ... 15 mm / 0.51 ... 0.59 inches

Physical data

Width	120 mm / 4.72 inches
Height	125 mm / 4.92 inches
Depth from upper-edge of DIN-rail	140 mm / 5.51 inches

Mechanical data

Mounting type	DIN-35 rail
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Material data

Fire load	0 MJ
Weight	3000 g

Environmental requirements

Ambient temperature (operation)	-30 ... +70 °C (Device starts at -40 °C (type-tested))
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	-19.2 W/°C (> 45 °C and < 200 V~); -19.2 W/°C (> 50 °C and ≥ 200 V~)
Climatic category	3K3 (per EN 60721)
Operating altitude (max.)	5000 m

Standards and Specifications

Conformity marking	CE
Standards/specifications	SEMI F47 EN 55032 EN 55035 EN 61000-3-3 EN 61204-3 EN 61558-2-16 EN IEC 61000-3-2 EN IEC 61010-1 EN IEC 61010-2-201 UL 61010-1 UL 61010-2-201

Commercial data

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4066966768053
Customs tariff number	85044083900

Product Classification

ETIM 9.0	EC002540
ETIM 10.0	EC002540
ECCN	NO US CLASSIFICATION

Environmental Product Compliance	
RoHS Compliance Status	Compliant, No Exemption

Approvals / Certificates

General approvals			Declarations of conformity and manufacturer's declarations		
					
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc.	-	E516135	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
			MFD for SEMI F47 WAGO GmbH & Co. KG	-	-
			UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

Downloads

Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 2587-2148	↓

Documentation

Instruction Leaflet			
Primär getaktete Stromversorgung; Ba- se;	V 2.0.0 28.08.2025	pdf 773.96 KB	↓

Subject to changes. Please also observe the further product documentation!

Current addresses can be found at: www.wago.com