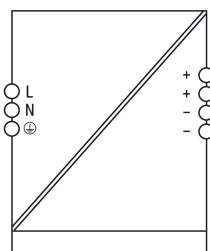


Data Sheet | Item Number: 2587-2148

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		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	23.5 ... 28 VDC
Input voltage range	1 x 90 ... 264 VAC	Default Setting	24 VDC
Nominal mains frequency range	50 ... 60 Hz	Nominal output current $I_{o\,nom}$	40 A (24 VDC)
Input current I_i	≤ 12 A (100 VAC; nominal load)	Nominal output power	960 W
Inrush current	at 230 VAC / 25 °C	Deviation	≤ 3 %
Power factor	≥ 0.98 (230 VAC)	Load regulation	≤ 1 %
Power factor correction (PFC)	Active	Residual ripple	≤ 80 mV (peak-to-peak)
Mains failure hold-up time	≥ 20 ms (230 VAC)	Overload behavior	Constant power up to 150%; short-circuit shutdown with automatic restart

Signaling and Communication	
Signaling	Optical status indication (DC OK, green LED)

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

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 2	
Connection type	Input	Connection type	Output
Connection technology	Push-in CAGE CLAMP®	Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 2626 Series	WAGO connector	WAGO 2626 Series
Solid conductor	0.2 ... 10 mm² / 24 ... 8 AWG	Solid conductor	0.2 ... 10 mm² / 24 ... 8 AWG
Fine-stranded conductor	0.2 ... 10 mm² / 24 ... 8 AWG	Fine-stranded conductor	0.2 ... 10 mm² / 24 ... 8 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 6 mm²	Fine-stranded conductor; with insulated ferrule	0.25 ... 6 mm²
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 6 mm²	Fine-stranded conductor; with uninsulated ferrule	0.25 ... 6 mm²
Strip length	13 ... 15 mm / 0.51 ... 0.59 inches	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

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	-	E516135	EU-Declaration of Confor- mity	-	-
Underwriters Laboratories Inc.			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	