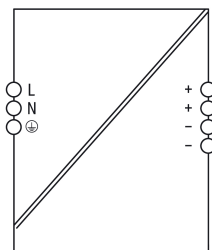


Data Sheet | Item Number: 2587-2147

Switched-mode power supply; Base; 1-phase; 24 VDC output voltage; 20 A output current; DC-OK LED

<https://www.wago.com/2587-2147>



Similar to illustration

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
- Electrically isolated output voltage (SELV) per EN 62368-1/UL 61010-1

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 (adjustable)
Input voltage range	1 x 90 ... 264 VAC (Derating -1 %/V for voltage < 100 VAC)	Default Setting	24 VDC
Nominal mains frequency range	47 Hz / 63 Hz	Nominal output current $I_{o\ nom}$	20 A (24 VDC)
Input current I_i	≤ 7 A	Leakage current at rated voltage	≤ 376 µA
Inrush current	≤ 20 A (at 230 VAC / 25 °C)	Nominal output power	480 W
Power factor	≥ 0.99 (115 VAC); ≥ 0.99 (230 VAC)	Deviation	≤ 1 %
Power factor correction (PFC)	Active	Residual ripple	≤ 100 mV (peak-to-peak)
Mains failure hold-up time	≥ 16 ms (230 VAC)	Overload behavior	Shutdown and automatic restart in the event of a short circuit

Signaling and Communication	
Signaling	Optical status indication (DC OK)

Efficiency/Power Losses	
Power loss P_i	≤ 5 W (no load); ≤ 32.5 W (Full load)
Efficiency (typ.)	94 %

Circuit Protection	
Internal fuse	T 8 A / 250 V

Safety and protection	
Isolation voltage (pri.-sec., AC)	3510 V
Isolation voltage (pri.-PE, AC)	2210 V
Protection class	I
Protection type	IP20; per EN 60529
Overvoltage category	III (≤ 2000 m); II (> 2000 m)
Pollution degree	2
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes, for 2 devices of the same type
Series operation	Yes, for 2 devices of the same type
MTBF	> 1,000,000 h (at 25 °C; per IEC 61709; SN 29500)

Connection Data	
Connection 1	
Connection type	Input/output
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 2626 Series
Solid conductor	0.2 ... 10 mm² / 24 ... 8 AWG
Fine-stranded conductor	0.2 ... 10 mm² / 24 ... 8 AWG
Fine-stranded conductor; with insulated fer- rule	0.25 ... 6 mm²
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 6 mm²
Strip length	13 ... 15 mm / 0.51 ... 0.59 inches



Physical data		
Width		56 mm / 2.2 inches
Height		125 mm / 4.92 inches
Depth from upper-edge of DIN-rail		129 mm / 5.08 inches

Mechanical data		
Mounting type		DIN-35 rail

Material data		
Weight		1149 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		-9.6 W/°C (> 45 °C and < 200 V); -9.6 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		EN 62368-1 EN 55032 EN 55035 EN IEC 61000-3-2 EN 61000-3-3 EN IEC 61000-6-4 EN IEC 61000-6-2 UL 61010-1 UL 61010-2-201 SEMI F47 EN 61558-2-16

Commercial data		
PU (SPU)		1 pcs
Packaging type		Box
Country of origin		CN
GTIN		4066966626698
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

Approvals / Certificates

General approvals			Declarations of conformity and manufacturer's declarations		
					
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc.	UL 61010-2-201	E255817	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
			MFD for SEMI F47 WAGO GmbH & Co. KG	-	-
			UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Downloads

Environmental Product Compliance

Compliance Search	
Environmental Product Compliance 2587-2147	

Documentation

Bid Text				Instruction Leaflet			
2587-2147	14.04.2025	docx 45.37 KB		Power Supply BASE	V 4.0.0 28.08.2025	pdf 735.94 KB	
2587-2147	14.04.2025	x81 7.24 KB					

CAD/CAE-Data

CAD data	
2D/3D Models 2587-2147	



1 Compatible Products

1.1 Optional Accessories

1.1.1 General accessories

1.1.1.1 Electronic circuit breaker



Item No.: 787-3664
Electronic circuit breaker; 4-channel; 24 VDC input voltage; adjustable 1 ... 10 A; Signal contact

Item No.: 787-3668
Electronic circuit breaker; 8-channel; 24 VDC input voltage; adjustable 1 ... 10 A; Signal contact

1.1.2 Tool

1.1.2.1 Operating tool



Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

Item No.: 210-721
Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured