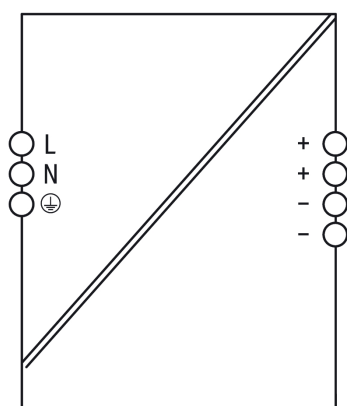


Data Sheet | Item Number: 2587-2144

Switched-mode power supply; Base; 1-phase; 24 VDC output voltage; 5 A output current; DC-OK LED

<https://www.wago.com/2587-2144>



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 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	DC 24 V
Nominal mains frequency range	50 Hz / 60 Hz	Nominal output current $I_{o\,nom}$	5 A (24 VDC)
Input current I_i	≤ 4 A	Nominal output power	120 W
Inrush current	≤ 35 A (at 230 VAC / 25 °C)	Deviation	≤ 1 %
Power factor correction (PFC)	Passive	Residual ripple	≤ 100 mV (peak-to-peak)
Mains failure hold-up time	≥ 50 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 (standby); ≤ 16.8 W (Full load)
Efficiency (typ.)	88 %

Circuit protection	
Internal fuse	T 5 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
Series operation	Yes
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 2624 Series
Solid conductor	0.2 ... 6 mm² / 24 ... 10 AWG
Fine-stranded conductor	0.2 ... 6 mm² / 24 ... 10 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	10 ... 12 mm / 0.39 ... 0.47 inches



Physical data	
Width	35 mm / 1.38 inches
Height	125 mm / 4.92 inches
Depth from upper-edge of DIN-rail	110 mm / 4.33 inches

Mechanical data	
Mounting type	DIN-35 rail

Material data	
Fire load	0 MJ
Weight	470 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	-2.4 W/°C (> 45 °C and < 200 V); -2.4 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

Commercial data	
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4066966626483
Customs tariff number	85044083900

Product Classification	
UNSPSC	39121004
ETIM 9.0	EC002540
ETIM 8.0	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	UL 61010-2-201	E255817	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 2587-2144	

Documentation

Bid Text				Instruction Leaflet			
2587-2144	14.04.2025	docx	45.37 KB		Power supply BASE	V 4.0.0	pdf
						28.08.2025	724.37 KB
2587-2144	14.04.2025	x81	7.20 KB				

CAD/CAE-Data

CAD data	
2D/3D Models	
2587-2144	



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