

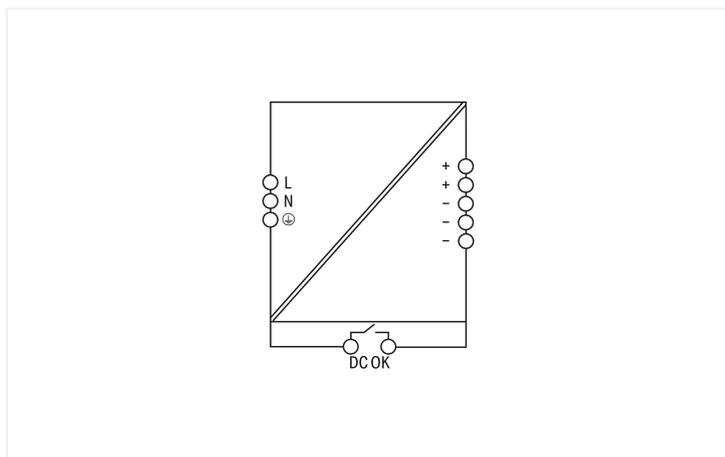
Data Sheet | Item Number: 2687-2147

Power supply; Eco 2; 1-phase; 24 VDC output voltage; 20 A output current; Power-Boost; DC OK contact

<https://www.wago.com/2687-2147>



Similar to illustration



Features:

- Power supply with PowerBoost
- Signal output, optical status indication
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- 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. 2789-1223, not included) for WAGO's marking cards (WMB) and WAGO's marking strips

Technical data		Output	
Input		Output	
Phases	1	Nominal output voltage $U_{o,nom}$	24 VDC (SELV/PELV)
Nominal input voltage $U_{i,nom}$	1 x 100 ... 240 VAC	Output voltage range	23 ... 28 VDC
Input voltage range	1 x 90 ... 264 VAC	Nominal output current $I_{o,nom}$	20 A
Nominal mains frequency range	50 ... 60 Hz	Nominal output power	480 W
Input current I_i	≤ 5.4 A (100 VAC); ≤ 2.2 A (230 VAC)	Deviation	≤ 1 %
Inrush current	≤ 20 A (after 1 ms)	Residual ripple	≤ 75 mV (peak-to-peak)
Power factor	≥ 0.85 (230 VAC)		

Output

Overload behavior	Constant power up to 120% for 5 s, followed by 100% constant current until boost is available again; shutdown and automatic restart in the event of a short circuit
PowerBoost	24 ADC (5 s)

Signaling and Communication

Signaling	Optical status indication (overload, red LED) Optical status indication (DC OK, green LED) Signal output (DC OK)
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Efficiency/Power Losses

Power loss P_1	≤ 3 W (230 VAC; no load); ≤ 30 W (230 VAC; nominal load)
Efficiency (typ.)	94 %

Circuit Protection

Internal fuse	T 10 A / 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
Isolation voltage (sec.-signal)	0.5 kVDC
Protection class	I
Protection type	IP20; Per EN 60529 (not assessed by UL)
Overtoltage category	III (≤ 2000 m ü. N. N.); II (> 2000 m ü. N. N.)
Pollution degree	2
Transient suppression (primary)	Yes
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	Yes
MTBF	$> 2,000,000$ h (per IEC 61709 at $+25$ °C)

Connection Data

Connection 1

Connection type	Input
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 2604 Series
Solid conductor	0.2 ... 4 mm ² / 24 ... 12 AWG
Fine-stranded conductor	0.2 ... 4 mm ² / 24 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 2.5 mm ²
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm ²
Strip length	9 ... 11 mm / 0.35 ... 0.43 inches

Connection 2

Connection type	Output
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 2606 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	11 ... 13 mm / 0.43 ... 0.51 inches

Connection 3

Connection type	Signaling
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 2086 Series
Solid conductor	0.14 ... 1.5 mm ² / 28 ... 16 AWG
Fine-stranded conductor	0.14 ... 1.5 mm ² / 26 ... 14 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 0.75 mm ²
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 1.5 mm ²
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches

Physical data

Width	75 mm / 2.95 inches
Height	130 mm / 5.118 inches
Depth from upper-edge of DIN-rail	130 mm / 5.118 inches

Mechanical data

Mounting type	DIN-35 rail
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Material data

Fire load	0 MJ
Weight	1250 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	-2.5 %/K (> 45 °C)
Climatic category	3K3 (per EN 60721)
Operating altitude (max.)	5000 m

Standards and Specifications

Conformity marking	CE
Standards/specifications	EN 61010-1 EN 61010-2-201 EN 61204-3 UL 61010-1 UL 61010-2-201 UL 121201 (HazLoc)

Commercial data

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4066966433074
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

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Documentation

Bid Text

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