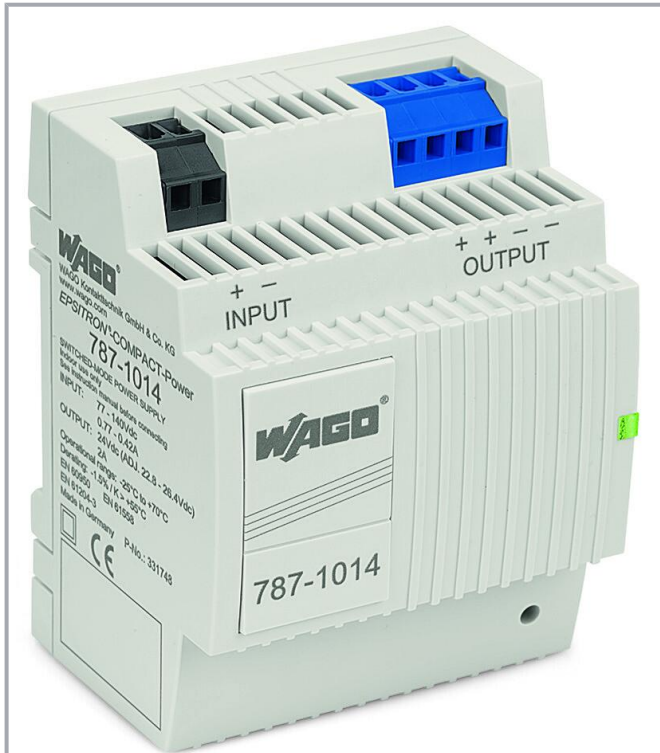


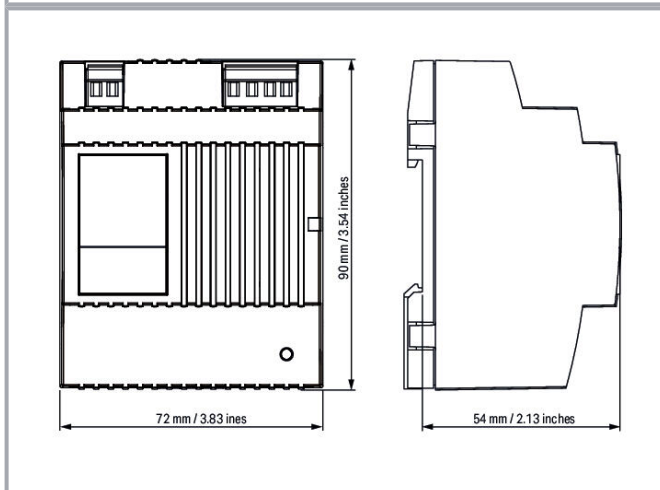
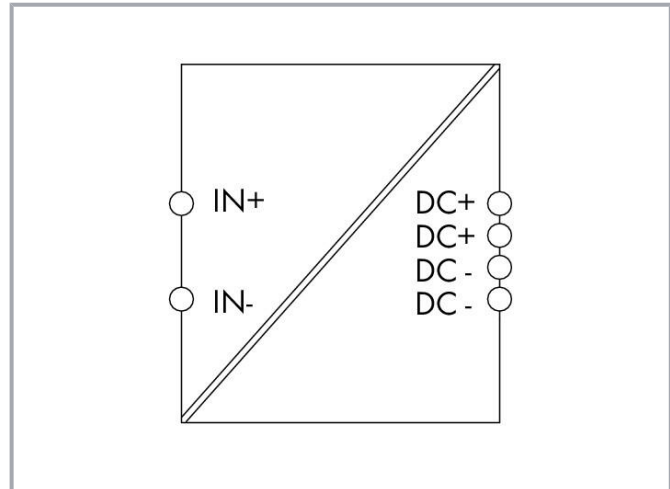
Data sheet | Item number: 787-1014/072-000

DC/DC Converter; Compact; 72 VDC input voltage; 24 VDC output voltage; 2 A output current

www.wago.com/787-1014/072-000



 Picture differs from the item.



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

WAGO GmbH & Co. KG
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Item description

Features:

- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards/boxes
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1
- Control deviation: $\pm 1\%$ ($\pm 10\%$ within the application range of EN 50121-3-2)
- Suitable for railway applications

Data

Technical data

Input

Nominal input voltage $U_{i\text{ nom}}$	DC 72 V
Input voltage range	DC 40 ... 90 V
Nominal mains frequency range	0 Hz
Input current I_i	$\leq 0.79\text{ A}$ (72 VDC)
Inrush current	$\leq 30\text{ A}$ (NTC)
Mains failure hold-up time	$\geq 8\text{ ms}$ (72 VDC)

Output

Nominal output voltage $U_{o\text{ nom}}$	DC 24 V (SELV)
Default setting	DC 24 V
Nominal output current $I_{o\text{ nom}}$	2 A (24 VDC); 1.6 A (in any mounting position)
Nominal output power	48 W
Deviation	$\leq 1\%$
Residual ripple	$\leq 100\text{ mV}$ (peak-to-peak)
Current limitation	$1.1 \times I_{o\text{ nom}}$ (typ.)
Overload behavior	Constant current

Signaling and communication

Signaling	1 x Status indication LED (green)
Operation status indicator	

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

Green LED (U_o)

Efficiency/power losses

Power loss P_I	$\leq 2 \text{ W}$ (72 VDC; no load); $\leq 9 \text{ W}$ (72 VDC; nominal load)
Power loss (max.) $P_{I(\text{max.})}$	10.5 W (40 VDC / 24 VDC; 2 A)
Efficiency (typ.)	84 %

Circuit protection

Internal fuse	T 4 A / 125 VDC
Backup fusing (recommended)	Circuit breaker: 6 A, 10 A; Tripping characteristic: B or C

Safety and protection

Protection class	II
Protection type	IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit $\leq 40 \text{ VDC}$ (in the event of a fault)
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	No
Series operation	Yes
MTBF	> 500,000 h (per IEC 61709)

Connection data

Connection type 1	Input/Output
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 740 Series
Solid conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Strip length	6 ... 7 mm / 0.24 ... 0.28 inches

Physical data

Width	72 mm / 2.835 inches
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Height	89 mm / 3.504 inches
Depth	59 mm / 2.323 inches
Depth from upper-edge of DIN-rail	55 mm / 2.165 inches

Mechanical Data

Housing design	DIN-rail-mount enclosure
Mounting type	DIN-35 rail

Material data

Flammability class per UL94	V0
Fire load	0.12 MJ
Weight	250 g

Environmental requirements

Ambient temperature (operation)	-40 ... +70 °C
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	5 ... 96 % (coated PCB)
Derating	-1.5 %/K (> 55 °C)
Climatic category	3K3 (per EN 60721)
Resistance to shock and vibration	Category 1, Class B (per EN 61373:2010)

Standards and specifications

Conformity marking	CE
Standards/specifications	EN 61010-1 EN 61010-2-201 EN 61204-3 EN 50121-3-2 DNV
Standards/specifications (pending)	EN 50125 UL 60950 UL 508

Commercial data

eCl@ss 10.0	27-04-07-01
eCl@ss 9.0	27-04-07-01
ETIM 8.0	EC002540
ETIM 7.0	EC002540

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Recupel Type	
PU (SPU)	1 pcs
Packaging type	box
Country of origin	DE
GTIN	4055143256544
Customs tariff number	85044083900

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	EAC Brjansker Zertifizierungsstelle	TP TC 004/2011, TP TC 020/2011	EAC RU C-DE.AM02. B. 00089_19

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Optional accessories

Tool

Operating tool	
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Item no.: 210-720

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

www.wago.com/210-720

Marking accessories

Marking strip	
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Item no.: 210-831

Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white

www.wago.com/210-831

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Item no.: 210-832

Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white

Downloads

Documentation

Bid Text

787-1014/072-000 pdf - Datei	2019 Jun 24	pdf 76.2 kB	Download
787-1014/072-000 docx - Datei	2019 Jun 24	docx 19.2 kB	Download
787-1014/072-000 X81 - Datei	2019 Feb 19	xml 6.7 kB	Download

Instruction Leaflet

Primär getaktete Stromversorgungen COMPACT DC 72 V / DC 24 V, 2 A		pdf 221.8 kB	Download
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Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 Aug 18	pdf 2.2 MB	Download
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CAD/CAE-Data

CAD data

2D/3D Models 787-1014/072-000	URL	Download
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CAE data

EPLAN Data Portal 787-1014/072-000	URL	Download
WSCAD Universe 787-1014/072-000	URL	Download
ZUKEN Portal 787-1014/072-000	URL	Download
WSCAD Universe 787-1014/072-000	URL	Download

EPLAN Data Portal 787-1014/072-000

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Asset Administration Shell

Asset Administration Shell 787-1014/072-000	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-1014/072-000	URL	Download
DC/DC Converter; Compact; 72 VDC input voltage; 24 VDC output voltage; 2 A output current		

Installation Notes

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