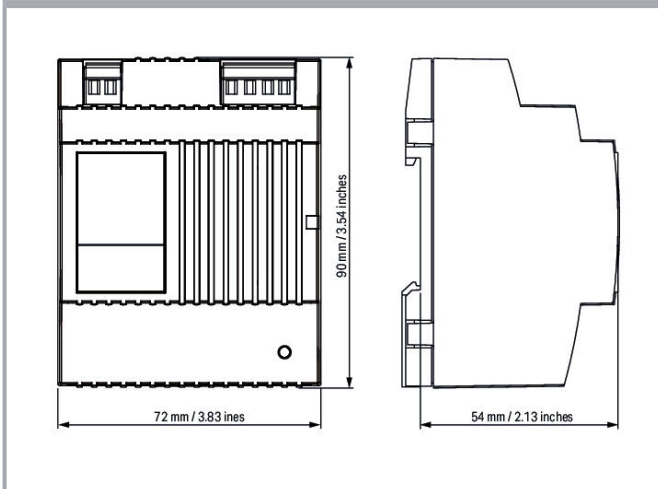
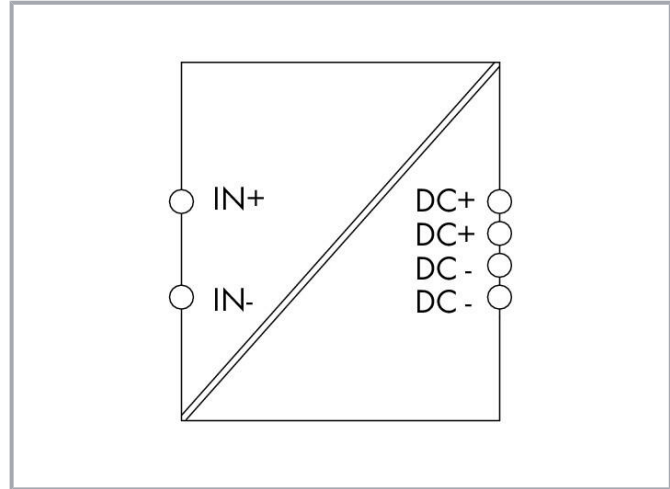


Data sheet | Item number: 787-1015/072-000

DC/DC Converter; Compact; 72 VDC input voltage; 12 VDC output voltage; 4 A output current; galvanically isolated



www.wago.com/787-1015/072-000



Item description

Features:

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

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- 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
- 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	≤ 0.79 A (72 VDC)
Inrush current	≤ 30 A (NTC)
Mains failure hold-up time	≥ 8 ms (72 VDC)

Output

Nominal output voltage $U_{o\text{ nom}}$	DC 12 V (SELV)
Nominal output current $I_{o\text{ nom}}$	4 A (24 VDC); 3.1 A (in any mounting position)
Nominal output power	48 W
Residual ripple	≤ 100 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	Green LED (U_o)

Efficiency/power losses

Power loss P_i	≤ 1.2 W (72 VDC; No load); ≤ 8.6 W (72 VDC; Nominal load)
	9.7 W (40 VDC / 12 VDC; 4 A)

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

Power loss (max.) $P_{I(max)}$

Efficiency (typ.) 85 %

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
 ≤ 21.5 VDC (in the event of a fault)

Short-circuit-protected Yes

Open-circuit-proof Yes

Parallel operation Yes

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 mm² / 28 ... 12 AWGFine-stranded conductor 0.08 ... 2.5 mm² / 28 ... 12 AWG

Strip length 6 ... 7 mm / 0.24 ... 0.28 inches

Physical data

Width 72 mm / 2.835 inches

Height 89 mm / 3.504 inches

Depth 59 mm / 2.323 inches

Depth from upper-edge of DIN-rail 55 mm / 2.165 inches

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Mechanical Data

Mounting type	DIN-35 rail
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Material Data

Flammability class per UL94	V0
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Weight	235 g
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Environmental requirements

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

Conformity marking	CE
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Standards/specifications	EN 61010-1 EN 61010-2-201 EN 61204-3 EN 50121-3-2 EN 50125 DNV
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Commercial data

eCl@ss 10.0	27-04-07-01
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eCl@ss 9.0	27-04-07-01
------------	-------------

ETIM 8.0	EC002540
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ETIM 7.0	EC002540
----------	----------

PU (SPU)	1 pcs
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Packaging type	box
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Country of origin	DE
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GTIN	4055143621502
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Customs tariff number	85044083900
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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	-	-

Downloads

Documentation

Bid Text

787-1015/072-000 X81 - Datei	2019 Jul 1	xml 6.4 kB	Download
787-1015/072-000 docx - Datei	2019 Jun 24	docx 20.0 kB	Download

Instruction Leaflet

Primär getaktete Stromversorgungen COMPACT DC 72 V / DC 24 V, 2 A	2022 Mar 4	pdf 3.4 MB	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

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



2D/3D Models 787-1015/072-000

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CAE data

EPLAN Data Portal 787-1015/072-000

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ZUKEN Portal 787-1015/072-000

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Environmental Product Compliance

Compliance Search

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DC/DC Converter; Compact; 72 VDC input voltage; 12 VDC output voltage; 4 A output current; galvanically isolated

Installation Notes

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