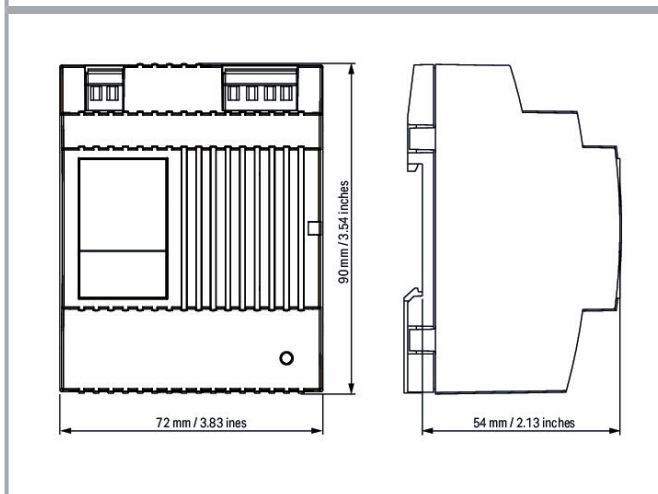
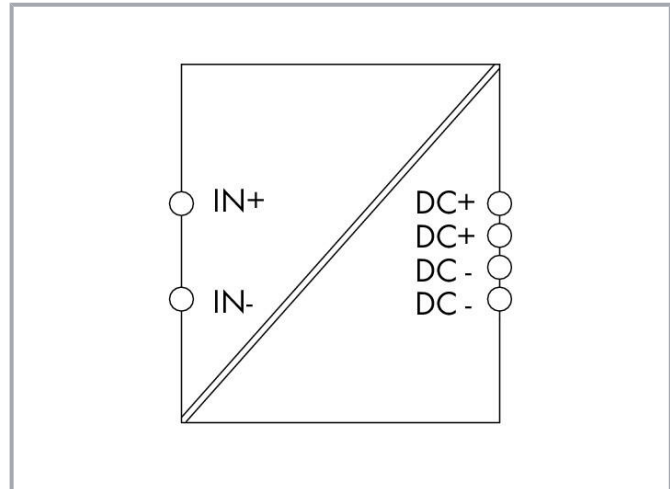


Data sheet | Item number: 787-1015/072-000

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



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

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



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
- 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 12 V (SELV)
Default setting	DC 12 V
Nominal output current $I_{o\text{ nom}}$	4 A (24 VDC); 3.1 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)
-----------	-----------------------------------

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



Operation status indicator

Green LED (U_o)

Efficiency/power losses

Power loss P_I	$\leq 1.2 \text{ W}$ (72 VDC; No load); $\leq 8.6 \text{ W}$ (72 VDC; Nominal load)
Power loss (max.) $P_{I(\text{max.})}$	9.7 W (40 VDC / 12 VDC; 4 A)
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 $\leq 21.5 \text{ VDC}$ (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 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
-------	----------------------

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

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



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
Weight	235 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 EN 50125 DNV

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
PU (SPU)	1 pcs
Packaging type	box
Country of origin	DE

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

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



GTIN	4055143621502
Customs tariff number	85044083900

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
------------------------	-------------------------

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
--	------------	---------------	----------

Additional Information

Disposal and Recycling	V 1.1.0	pdf	Download
------------------------	---------	-----	----------

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

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



CAD/CAE-Data

CAD data

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

CAE data

EPLAN Data Portal 787-1015/072-000	URL	Download
ZUKEN Portal 787-1015/072-000	URL	Download
EPLAN Data Portal 787-1015/072-000	URL	Download

Asset Administration Shell

Asset Administration Shell 787-1015/072-000	URL	Download
---	-----	----------

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-1015/072-000 DC/DC Converter; Compact; 72 VDC input voltage; 12 VDC output voltage; 4 A output current; galvanically isolated	URL	Download
---	-----	----------

Installation Notes

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