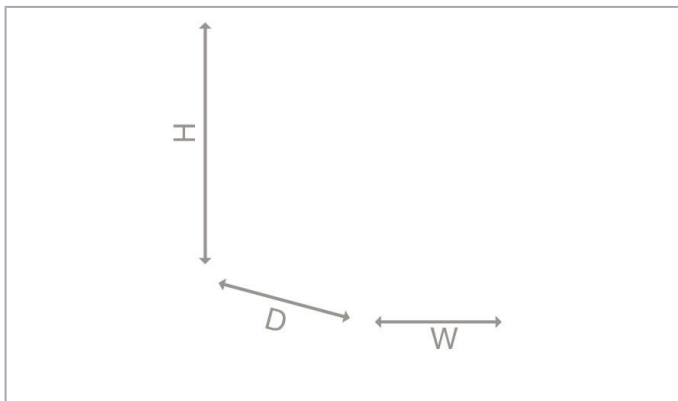
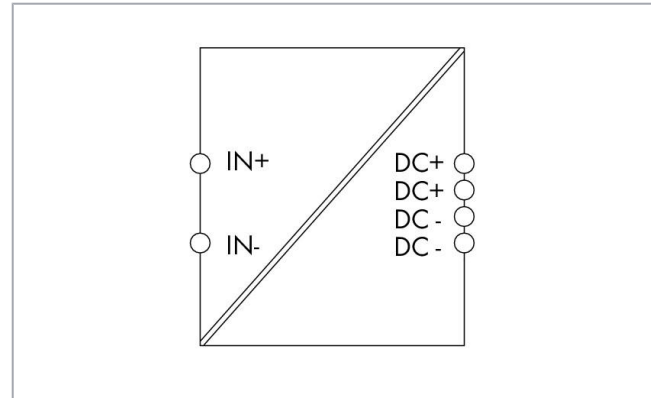


Data sheet | Item number: 787-1015/072-000

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:

- 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

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

WAGO Kontakttechnik 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.

- 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)
Discharge current	$\leq 1\text{ mA}$
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
Control 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	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 %

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



Circuit protection

Internal fuse	T 4 A / 125 VDC
Recommended backup fusing	Circuit breaker: 6 A, 10 A; Tripping characteristic: B or C

Safety and protection

Isolation voltage (Pri.-Sec.)	DC 4.242 kV
Protection class	II
Protection type	IP20 (per EN 60529)
Resistance to reverse feed	≤ DC 20 V
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 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 inch

Physical data

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

Mechanical data

Mounting type	DIN-35 rail
---------------	-------------

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

WAGO Kontakttechnik 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.

Material data

Flammability class per UL94	V0
Weight	235 g

Environmental requirements

Surrounding air temperature (operation)	-40 ... 70 °C
Surrounding air temperature (storage)	-40 ... 85 °C
Relative humidity	5 ... 96 % (coated PCB)
Derating	-1.5 %/K (> 55 °C)
Pollution degree	2
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 60950; EN 61204-3; EN 50121-3-2; EN 50125; DNV GL

Commercial data

Packaging type	BOX
Country of origin	DE
GTIN	4055143621502
Customs tariff number	85044082900

Downloads

Documentation

Bid Text

787-1015/072-000 docx - Datei	24. 6. 2019	docx 20.0 kB	Download
787-1015/072-000 X81 - Datei	1. 7. 2019	xml 6.4 kB	Download

Instruction Leaflet

Primär getaktete Stromversorgungen EPSITRON COMPACT Power DC 72 V / DC 24 V, 2 A	pdf 1.4 MB	Download
---	---------------	----------

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



Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
--	---------	-----------------	----------

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

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-1015/072-000	URL	Download
---	-----	----------

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

Installation Notes

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

WAGO Kontakttechnik 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.