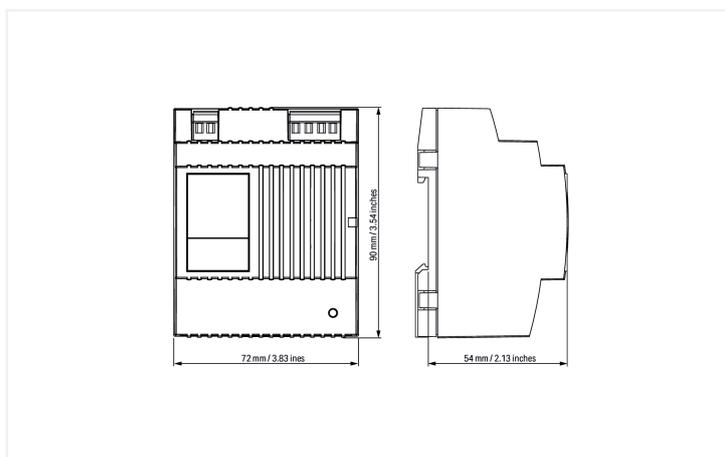
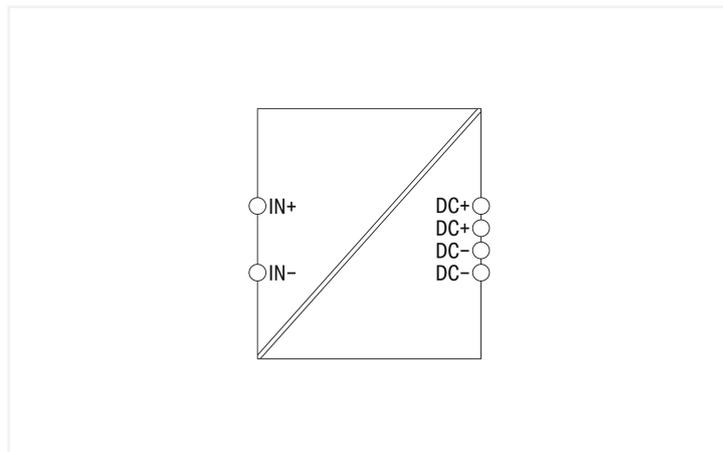


## Data Sheet | Item Number: 787-1015/072-000

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

<https://www.wago.com/787-1015/072-000>



### 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

### Technical data

#### Input

Nominal input voltage $U_{i, \text{nom}}$	72 VDC
Input voltage range	40 ... 90 VDC
Nominal mains frequency range	0 Hz
Input current $I_i$	$\leq 0.79$ A (72 VDC)
Discharge current	$\leq 1$ mA
Inrush current	$\leq 30$ A (NTC)
Mains failure hold-up time	$\geq 8$ ms (72 VDC)

#### Output

Nominal output voltage $U_{o, \text{nom}}$	12 VDC (SELV)
Default Setting	12 VDC
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	$\leq 100$ 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 $P_I$	$\leq 1.2$ W (72 VDC; no load); $\leq 8.6$ W (72 VDC; nominal load)
Power loss (max.) $P_{I(max)}$	9.7 W (40 VDC / 12 VDC; 4 A)
Efficiency (typ.)	85 %

### Circuit Protection

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

### Safety and protection

Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class	II
Protection type	IP20; per EN 60529
Resistance to reverse feed	$\leq 20$ VDC
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit $\leq 21.5$ 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 1

Connection type	Input/output
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 740 Series
Solid conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm <sup>2</sup> / 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

### Mechanical data

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

### Material data

Flammability class per UL94	V0
Fire load	0 MJ
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

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

### Product Classification

UNSPSC	39121004
eCl@ss 10.0	27-04-07-01
eCl@ss 9.0	27-04-07-01
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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Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 004/2011	EAC CoC 03078
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-1015/072-000	↓
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Documentation

Bid Text

787-1015/072-000	01.07.2019	xml 6.27 KB	↓
787-1015/072-000	24.06.2019	docx 19.48 KB	↓

Instruction Leaflet

Primär getaktete Stromversorgungen COMPACT	04.03.2022	pdf 3288.58 KB	↓
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CAD/CAE-Data

CAD data

2D/3D Models 787-1015/072-000	↓
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CAE data

EPLAN Data Portal 787-1015/072-000	↓
ZUKEN Portal 787-1015/072-000	↓